



TASKalfa 180

TASKalfa 220

SERVICE

MANUAL

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Rev.2

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

It may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for proper disposal.

ATTENTION

IL Y A UN RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UN MODÈLE DE TYPE INCORRECT. METTRE AU REBUT LES BATTERIES UTILISÉES SELON LES INSTRUCTIONS DONNÉES.

Il peut être illégal de jeter les batteries dans des eaux d'égout municipales. Vérifiez avec les fonctionnaires municipaux de votre région pour les détails concernant des déchets solides et une mise au rebut appropriée.

Revision history

Revision	Date	Replaced pages	Remarks
1	August 31, 2009	1-2-10, 1-2-11, 1-2-13, 1-3-2, 1-3-3, 1-3-17, 1-3-47, 1-5-2, 1-5-13	-
2	September 26, 2009	Contents, 1-6-3	-


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Safety precautions


This booklet provides safety warnings and precautions for our service personnel to ensure the safety of their customers, their machines as well as themselves during maintenance activities. Service personnel are advised to read this booklet carefully to familiarize themselves with the warnings and precautions described here before engaging in maintenance activities.

Safety warnings and precautions


Various symbols are used to protect our service personnel and customers from physical danger and to prevent damage to their property. These symbols are described below:

 **DANGER:** High risk of serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

 **WARNING:** Serious bodily injury or death may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

 **CAUTION:** Bodily injury or damage to property may result from insufficient attention to or incorrect compliance with warning messages using this symbol.

Symbols

The triangle () symbol indicates a warning including danger and caution. The specific point of attention is shown inside the symbol.



General warning.



Warning of risk of electric shock.



Warning of high temperature.

 indicates a prohibited action. The specific prohibition is shown inside the symbol.



General prohibited action.



Disassembly prohibited.

 indicates that action is required. The specific action required is shown inside the symbol.



General action required.



Remove the power plug from the wall outlet.



Always ground the copier.

1. Installation Precautions

WARNING

- Do not use a power supply with a voltage other than that specified. Avoid multiple connections to one outlet: they may cause fire or electric shock. When using an extension cable, always check that it is adequate for the rated current.
- Connect the ground wire to a suitable grounding point. Not grounding the copier may cause fire or electric shock. Connecting the earth wire to an object not approved for the purpose may cause explosion or electric shock. Never connect the ground cable to any of the following: gas pipes, lightning rods, ground cables for telephone lines and water pipes or faucets not approved by the proper authorities.



CAUTION:

- Do not place the copier on an infirm or angled surface: the copier may tip over, causing injury.
- Do not install the copier in a humid or dusty place. This may cause fire or electric shock.
- Do not install the copier near a radiator, heater, other heat source or near flammable material.



This may cause fire.



- Allow sufficient space around the copier to allow the ventilation grills to keep the machine as cool as possible. Insufficient ventilation may cause heat buildup and poor copying performance.



- Always handle the machine by the correct locations when moving it.
- Always use anti-toppling and locking devices on copiers so equipped. Failure to do this may cause the copier to move unexpectedly or topple, leading to injury.
- Avoid inhaling toner or developer excessively. Protect the eyes. If toner or developer is accidentally ingested, drink a lot of water to dilute it in the stomach and obtain medical attention immediately. If it gets into the eyes, rinse immediately with copious amounts of water and obtain medical attention.













- Advise customers that they must always follow the safety warnings and precautions in the copier's instruction handbook.







2.Precautions for Maintenance

WARNING

- Always remove the power plug from the wall outlet before starting machine disassembly. 
- Always follow the procedures for maintenance described in the service manual and other related brochures. 
- Under no circumstances attempt to bypass or disable safety features including safety mechanisms and protective circuits. 
- Always use parts having the correct specifications. 
- Always use the thermostat or thermal fuse specified in the service manual or other related brochure when replacing them. Using a piece of wire, for example, could lead to fire or other serious accident. 
- When the service manual or other serious brochure specifies a distance or gap for installation of a part, always use the correct scale and measure carefully. 
- Always check that the copier is correctly connected to an outlet with a ground connection. 
- Check that the power cable covering is free of damage. Check that the power plug is dust-free. If it is dirty, clean it to remove the risk of fire or electric shock. 
- Never attempt to disassemble the optical unit in machines using lasers. Leaking laser light may damage eyesight. 
- Handle the charger sections with care. They are charged to high potentials and may cause electric shock if handled improperly. 

CAUTION

- Wear safe clothing. If wearing loose clothing or accessories such as ties, make sure they are safely secured so they will not be caught in rotating sections. 
- Use utmost caution when working on a powered machine. Keep away from chains and belts. 
- Handle the fixing section with care to avoid burns as it can be extremely hot. 
- Check that the fixing unit thermistor, heat and press rollers are clean. Dirt on them can cause abnormally high temperatures. 

• Do not remove the ozone filter, if any, from the copier except for routine replacement.



• Do not pull on the AC power cord or connector wires on high-voltage components when removing them; always hold the plug itself.



• Do not route the power cable where it may be stood on or trapped. If necessary, protect it with a cable cover or other appropriate item.



• Treat the ends of the wire carefully when installing a new charger wire to avoid electric leaks.



• Remove toner completely from electronic components.



• Run wire harnesses carefully so that wires will not be trapped or damaged.



• After maintenance, always check that all the parts, screws, connectors and wires that were removed, have been refitted correctly. Special attention should be paid to any forgotten connector, trapped wire and missing screws.



• Check that all the caution labels that should be present on the machine according to the instruction handbook are clean and not peeling. Replace with new ones if necessary.



• Handle greases and solvents with care by following the instructions below:



- Use only a small amount of solvent at a time, being careful not to spill. Wipe spills off completely.
- Ventilate the room well while using grease or solvents.
- Allow applied solvents to evaporate completely before refitting the covers or turning the power switch on.
- Always wash hands afterwards.

• Never dispose of toner or toner bottles in fire. Toner may cause sparks when exposed directly to fire in a furnace, etc.



• Should smoke be seen coming from the copier, remove the power plug from the wall outlet immediately.



3.Miscellaneous

WARNING

• Never attempt to heat the drum or expose it to any organic solvents such as alcohol, other than the specified refiner; it may generate toxic gas.



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INSTALLATION GUIDE	
DOCUMENT PROCESSOR	
PAPER FEEDER	
DUPLEX UNIT	
Printing System (Z)	

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1-1-1 Specifications

Type	Desktop
Printing system	Indirect electrostatic system
Supported original types	Sheets, books and three-dimensional objects
	Maximum original size: A3/Ledger
Original feed system	Fixed
Paper weight	Cassette: 64 - 105 g/m ²
	MP tray: 45 - 160 g/m ²
Paper type	Cassette: Plain, Rough, Recycled, Preprinted, Bond, Color (Colour), Prepunched, Letterhead, High Quality, Custom 1 to 8
	MP tray: Plain, Transparency (OHP film), Rough, Vellum, Labels, Recycled, Preprinted, Bond, Cardstock, Color (Colour), Prepunched, Letterhead, Thick, Envelope, High Quality, Custom 1 to 8
Paper size	Cassette: A3, B4, A4, A4R, B5, B5R, A5R, Folio, Ledger, Legal, Letter, LetterR, StatementR, Oficio II, 8K, 16K
	MP tray: A3, B4, A4, A4R, B5, B5R, A5R, B6R, A6R, Folio, Ledger, Legal, Letter, LetterR, Statement, Oficio II, 8K, 16K
	A3, B4, A4, A4R, B5, B5R, A5R, B6R, A6R, Folio, Ledger, Legal, Letter, LetterR, Hagaki, Ofufuku Hagaki, Envelope DL, Envelope C5, Envelope C4, Envelope #10 (Comm. #10), Envelope #9 (Comm. #9), Envelope #6 (Comm. #6 3/4), Envelope Monarch, ISO B5, Youkei 2, Youkei 4, Executive, Statement, Oficio II, 8K, 16K, 16KR,
Zoom level	Manual mode: 25 to 400%, 1% increments
	Auto mode: Preset zoom
Printing speed	18 ppm model
	A4/Letter: 18 sheets/min.
	A4R/LetterR: 13 sheets/min.
	A3/Ledger: 8 sheets/min.
	B4/Legal: 8 sheets/min.
	B5: 16 sheets/min.
	B5R: 13 sheets/min.
	A5R: 10 sheets/min.
	22 ppm model
	A4/Letter: 22 sheets/min.
	A4R/LetterR: 13 sheets/min.
	A3/Ledger: 10 sheets/min.
	B4/Legal: 11 sheets/min.
	B5: 20 sheets/min.
	B5R: 13 sheets/min.
	A5R: 10 sheets/min.
First copy time	5.7 s or less
Warm-up time	Room temperature 22 °C/71.6 °F, 60% RH
	Power on: 17.2 s
	Low power mode: 10 s
	Sleep mode: 17.2 s
Paper capacity	Cassette: 300 sheets (80 g/m ²), 150 sheets (90 g/m ² or more)
	MP tray: 100 sheets (A4/Letter or less), 25 sheets (B4/Legal or more)
Output tray capacity	Top tray: 250 sheets (80 g/m ²)
Continuous copying	1 to 999 sheets
Light source	Inert gas lamp
Scanning system	Flat bed scanning by CCD image sensor
Photoconductor	OPC (drum diameter 30 mm)
Image write system	Semiconductor laser
Charging system	Single positive corona charging
Developing system	Single component developing system
	Toner: magnetism toner
	Toner replenishing: Automatic from a toner container
Transfer system	Transfer roller
Separation system	Curvature separation and separation electrode
Cleaning system	Blade and cleaning roller

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Charge erasing system	Exposure by cleaning lamp
Fusing system	Heat roller
	Heat source: Halogen heaters
	Abnormally high temperature protection devices: thermostats
Main memory	Standard: 32 MB
	Maximum: 160 MB
Interface	USB interface connector: 1 (USB Hi-speed)
	Network interface: 1 (10 BASE-T/100 BASE-TX)
Resolution	600 x 600 dpi
Operating environment	Temperature: 10 to 32.5°C/50 to 90.5°F
	Humidity: 15 to 80% RH
	Altitude: 2500 m/8,202 ft maximum
	Brightness: 1500 lux maximum
Dimensions	568 (W) x 546 (D) x 502 (H) mm (main body only)
	22 3/8" (W) x 21 1/2" (D) x 19 3/4" (H) (main body only)
Weight	33 kg/72.8 lbs
Space required	838 mm (W) x 546 (D) mm (using MP tray)
	33" (W) x 21 1/2" (D) (using MP tray)
Power source	120 V AC, 60 Hz, 9.7 A
	220 to 240 V AC, 50 Hz, 5.1 A
Options	Document processor, paper feeder, duplex unit, key counter, printer kit and expansion memory

Duplex unit

Type	Internal type
Paper weight	64 - 105 g/m ²
Paper type	Plain, Recycled
Paper size	A3, B4, A4, A4R, B5, B5R, A5R, Folio, Ledger, Legal, Letter, LetterR, StatementR, Oficio II, 8K, 16K
Power source	Electrically connected to the machine.
Dimensions	363 (W) x 54 (D) x 181 (H) mm
	14 5/16" (W) x 2 1/8" (D) x 7 1/8" (H)
Weight	0.5 kg or less / 1.1 lbs or less

NOTE: These specifications are subject to change without notice.

1-1-2 Parts names

(1) Body

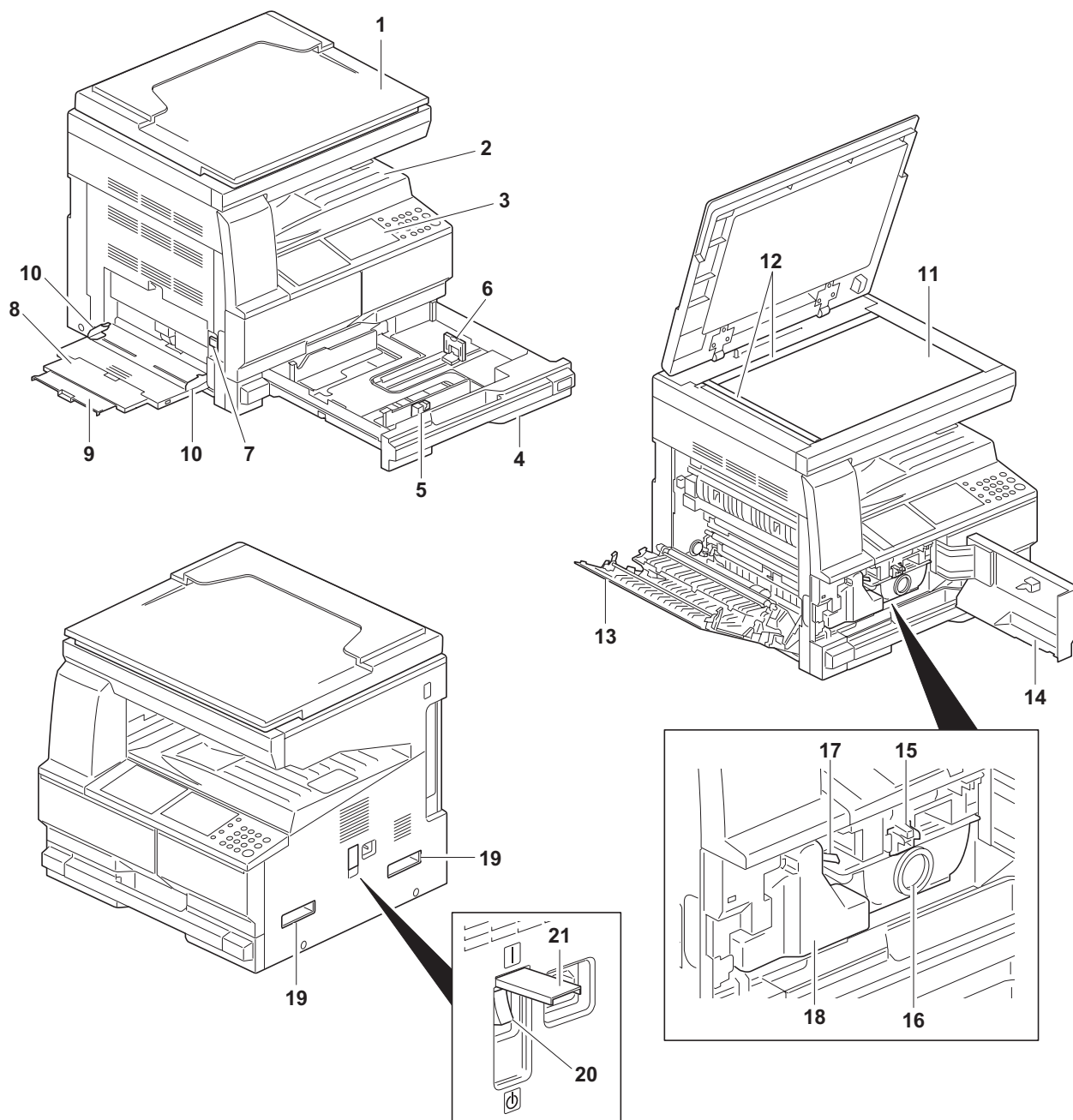


Figure 1-1-1

- | | | |
|-------------------------------|------------------------------------|-----------------------------------|
| 1. Original cover (option) | 8. MP tray | 15. Toner container release lever |
| 2. Output tray | 9. MP tray extension | 16. Toner container |
| 3. Operation panel | 10. Slider | 17. Charger cleaner rod |
| 4. Cassette | 11. Contact glass | 18. Waste toner box |
| 5. Paper width adjusting tab | 12. Original size indicator plates | 19. Handles for transport |
| 6. Paper length adjusting tab | 13. Left cover | 20. Main power switch |
| 7. Left cover handle | 14. Front cover | 21. Main power switch cover |

(2) Operation panel

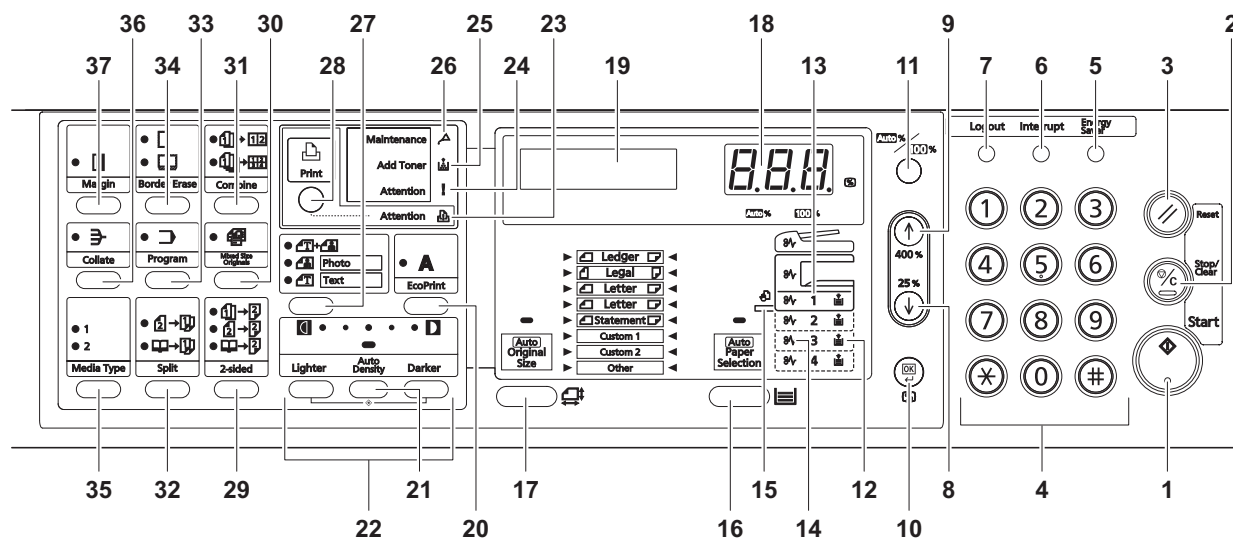


Figure 1-1-2

- | | |
|----------------------------------|--|
| 1. Start key | 20. EcoPrint key |
| 2. Stop/Clear key | 21. Auto density key |
| 3. Reset key | 22. Density adjustment key/Density display |
| 4. Numeric keys | 23. Attention indicator |
| 5. Energy saver key | 24. Error Indicator |
| 6. Interrupt key | 25. Add toner indicator |
| 7. Logout key | 26. Maintenance indicator |
| 8. Zoom + key | 27. Image quality selection key |
| 9. Zoom - key | 28. Printer Key |
| 10. OK Key | 29. 2-sided key |
| 11. Auto%100% key | 30. Mixed original size key |
| 12. Paper supply indicator | 31. Combine key |
| 13. Paper supply level indicator | 32. Split key |
| 14. Paper misfeed indicator | 33. Program key |
| 15. MP indicator | 34. Border erase key |
| 16. Paper selection key | 35. Media type key |
| 17. Original size key | 36. Collate key |
| 18. No. of copies/Zoom display | 37. Margin key |
| 19. Message display | |

1-1-3 Machine cross section

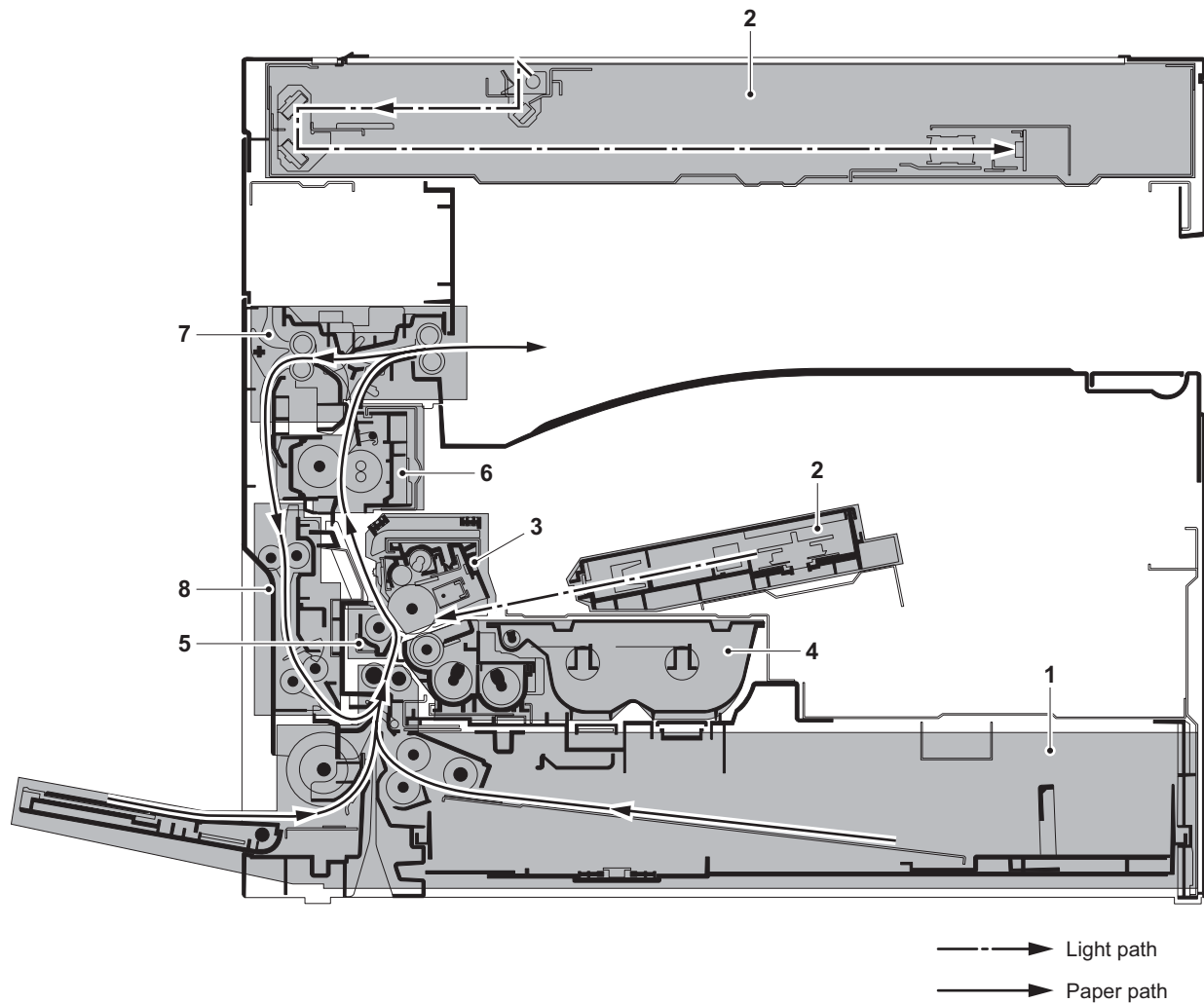


Figure 1-1-3 Machine cross section

1. Paper feed section
2. Optical section
3. Drum section
4. Developing section
5. Transfer and separation sections
6. Fuser section
7. Eject and switchback sections
8. Duplex section

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1-2-1 Installation environment

1. Temperature: 10 to 32.5°C/50 to 90.5°F
2. Humidity: 15 to 80% RH
3. Power supply: 120 V AC, 9.7 A
220 to 240 V AC, 5.1 A
4. Power source frequency: 50 Hz \pm 0.3%/60 Hz \pm 0.3%
5. Installation location

Avoid direct sunlight or bright lighting. Ensure that the photoconductor will not be exposed to direct sunlight or other strong light when removing paper jams.

Avoid locations subject to high temperature and high humidity or low temperature and low humidity; an abrupt change in the environmental temperature; and cool or hot, direct air.

Avoid places subject to dust and vibrations.

Choose a surface capable of supporting the weight of the machine.

Place the machine on a level surface (maximum allowance inclination: 1°).

Avoid air-borne substances that may adversely affect the machine or degrade the photoconductor, such as mercury, acidic or alkaline vapors, inorganic gasses, NO_x, SO_x gases and chlorine-based organic solvents.

Select a well-ventilated location.
6. Allow sufficient access for proper operation and maintenance of the machine.
Machine front: 1000 mm/39 3/8" Machine rear: 100 mm/3 15/16"
Machine right: 300 mm/11 13/16" Machine left: 300 mm/11 13/16"

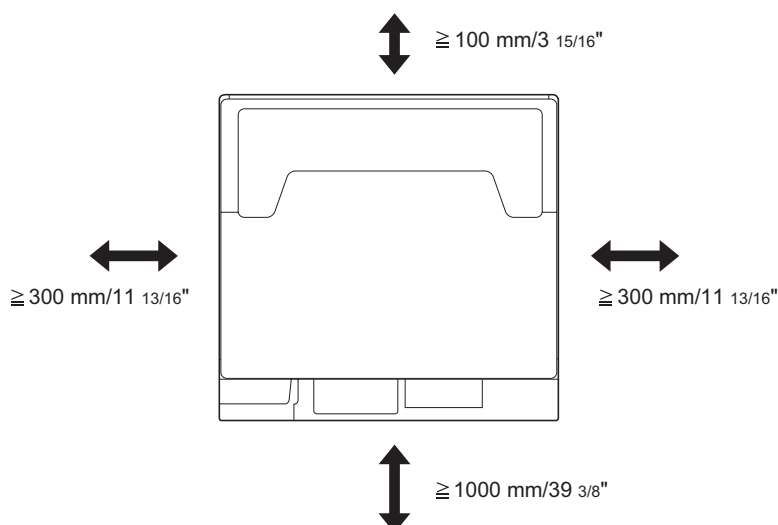
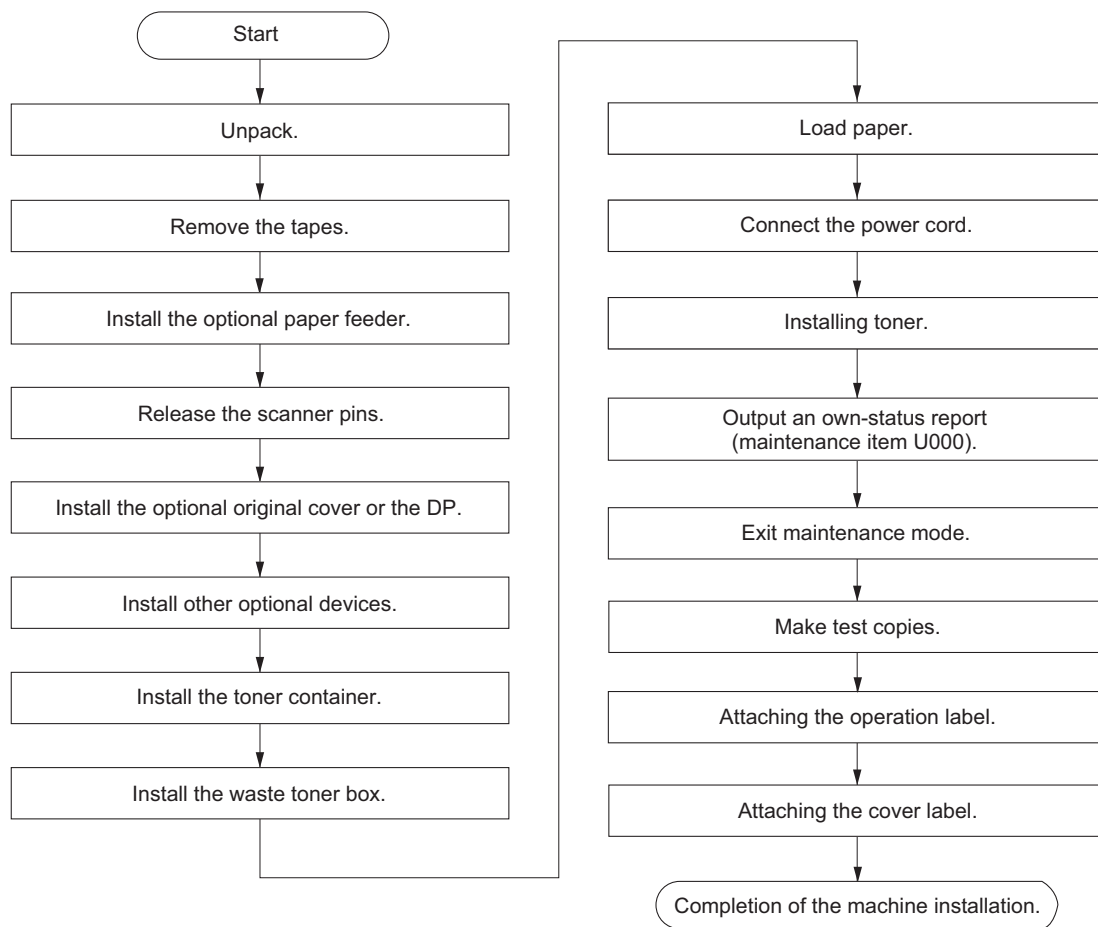


Figure 1-2-1 Installation dimensions

1-2-2 Unpacking and installation

(1) Installation procedure



Unpacking.

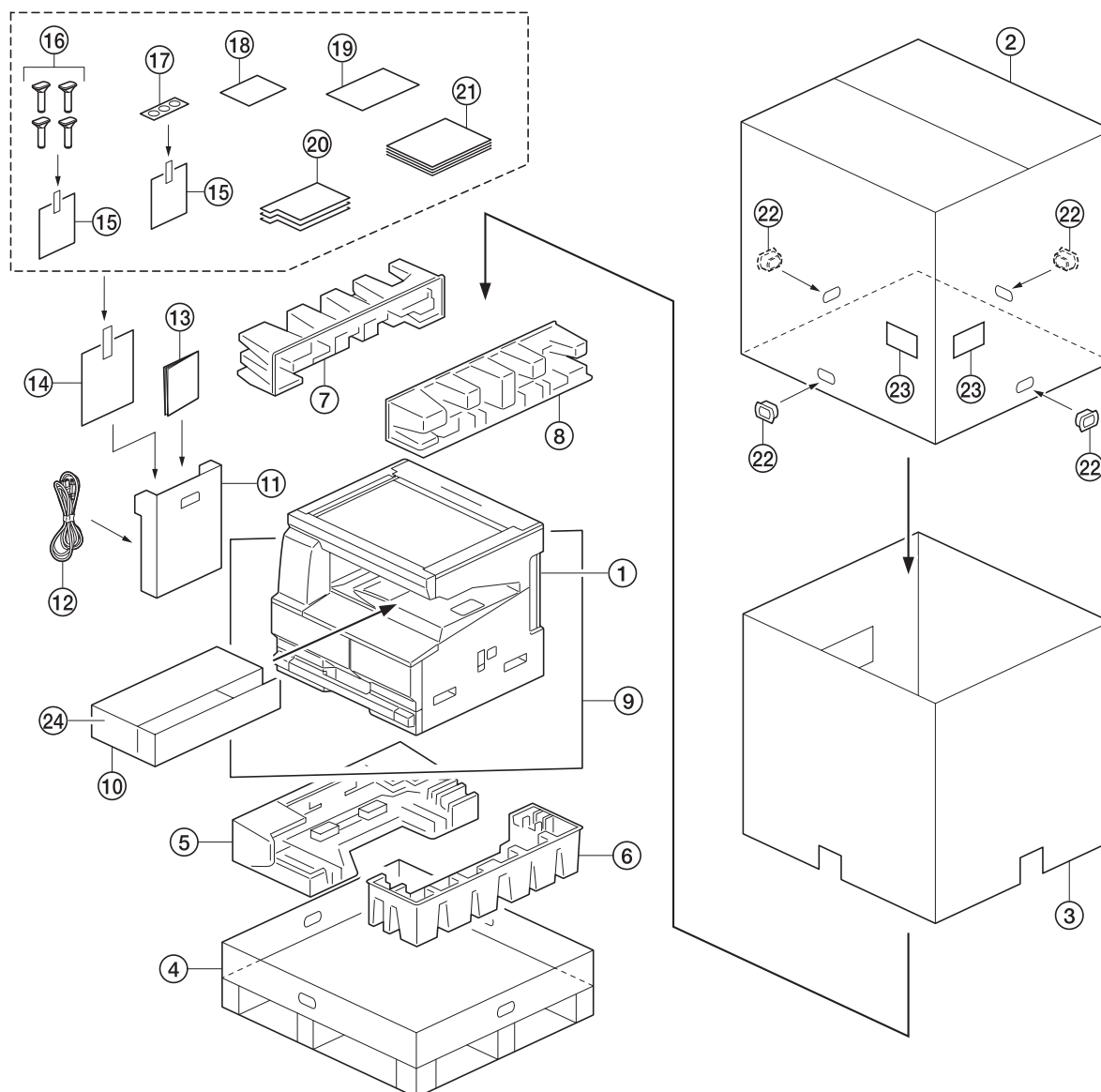


Figure 1-2-2 Unpacking

- | | |
|------------------------|--------------------------|
| 1. Machine | 14. Plastic bag |
| 2. Outer case | 15. Plastic bag |
| 3. Inner frame | 16. Cursor pins |
| 4. Skid | 17. Cover label |
| 5. Bottom left pad | 18. Cassette size labels |
| 6. Bottom right pad | 19. Operation label A |
| 7. Top left pad | 20. Operation label B |
| 8. Top right pad | 21. Operation guide* |
| 9. Machine cover | 22. Hinge joints |
| 10. Eject spacer | 23. Barcode labels |
| 11. Document tray | 24. Toner container |
| 12. Power cord | |
| 13. Paper storage bags | |

*: 120 V specifications only

Caution: Place the machine on a level surface.

Remove the tapes.

1. Remove four tapes and remove the plastic sheet.

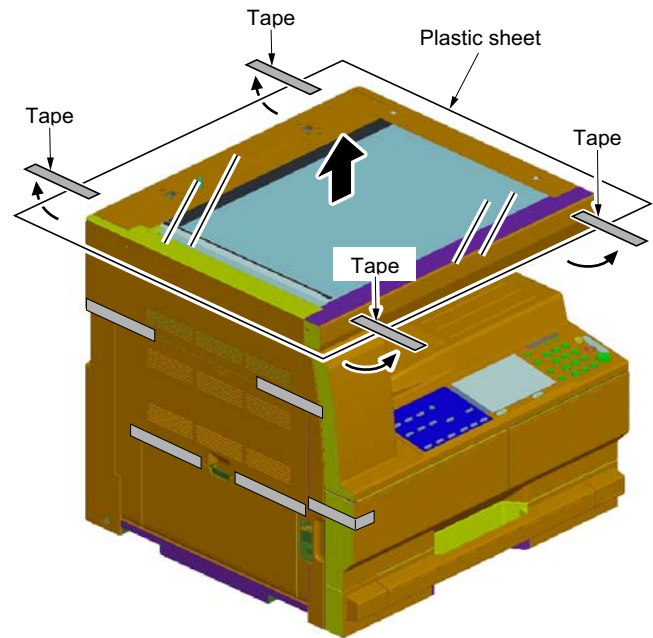


Figure 1-2-3

2. Remove five tapes.

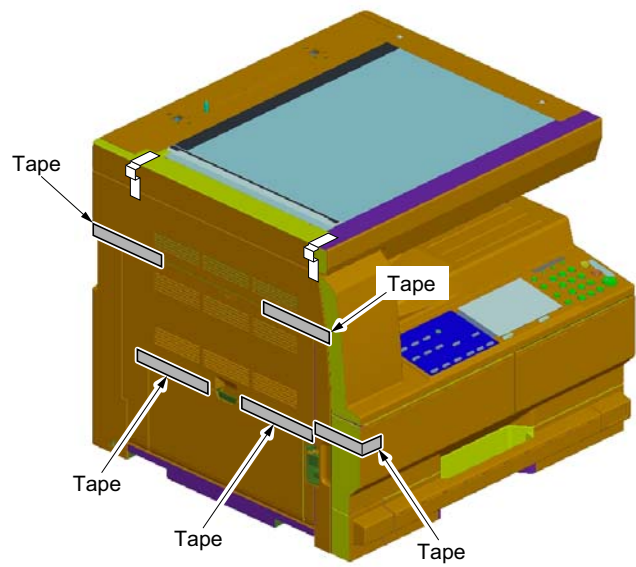


Figure 1-2-4

3. Pull the cassette out.
4. Remove the tapes.
5. Push the cassette back in.

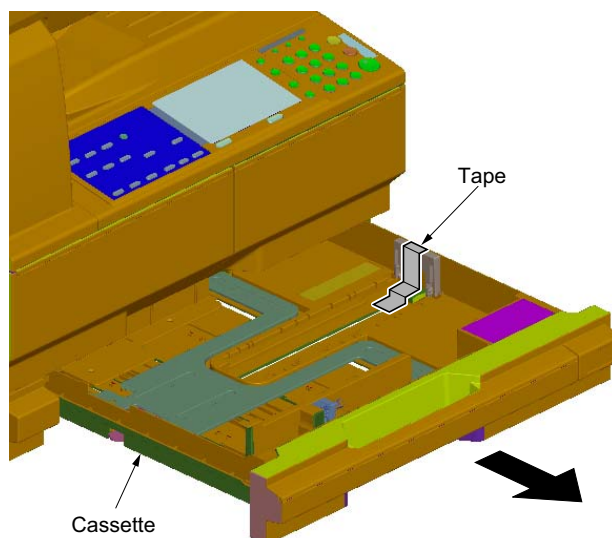


Figure 1-2-5

Install the optional paper feeder.

1. Install the optional paper feeder as necessary.

Release the scanner pins.

1. Remove two tapes.
2. Remove two scanner pins.

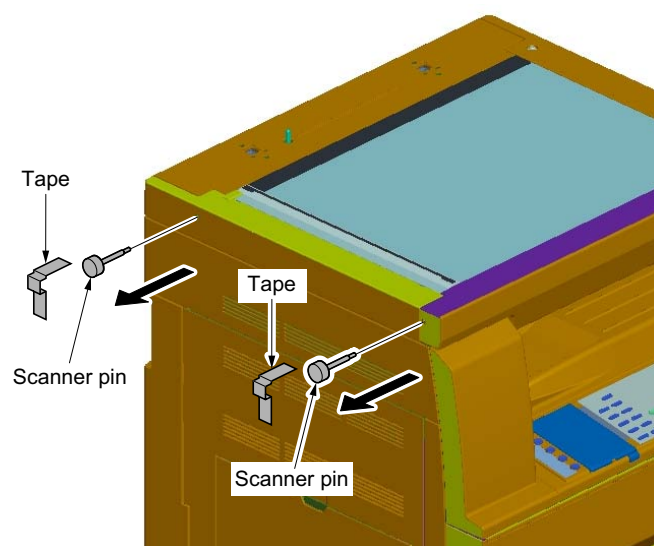


Figure 1-2-6

Install the optional original cover or the DP.

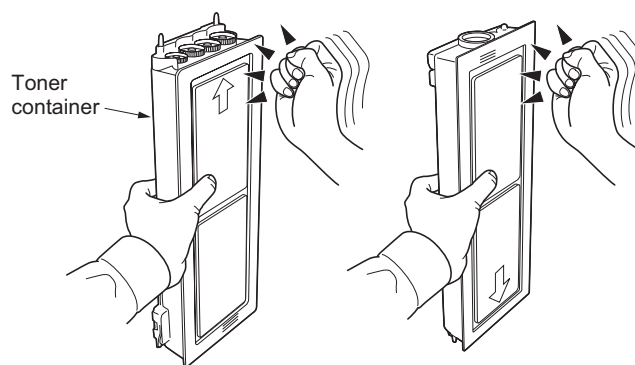
1. Install the optional original cover or DP.

Install other optional devices.

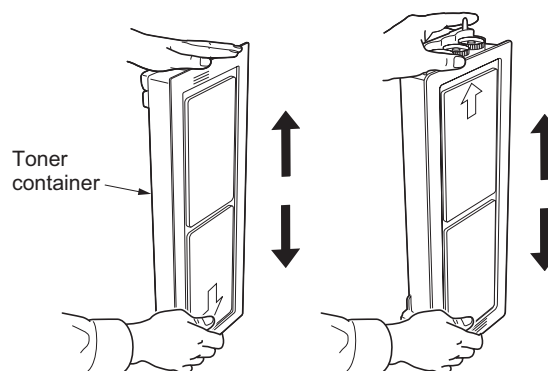
1. Install the optional devices (duplex unit and/or printer kit etc.) as necessary.

Install the toner container.

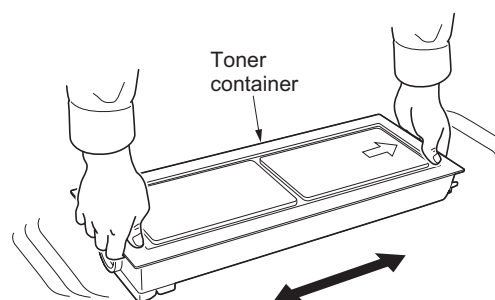
1. Open the front cover.
2. Hold the toner container vertically and tap the upper part five times or more.
Turn the toner container upside down and tap the upper part five times or more.

**Figure 1-2-7**

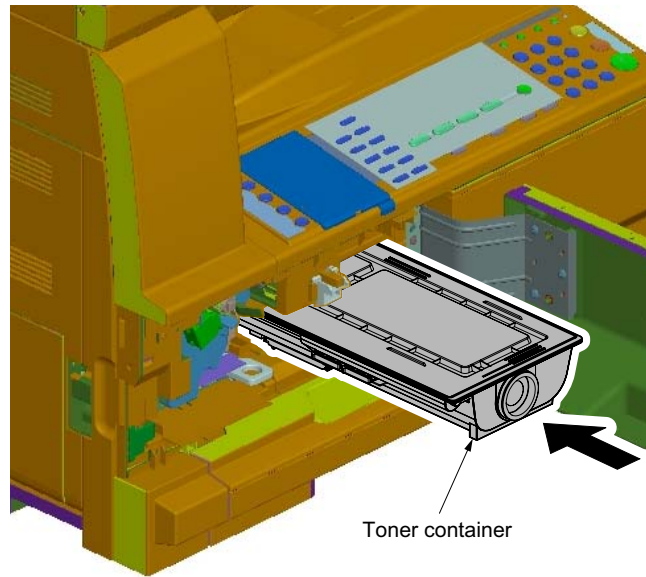
3. Shake the toner container up and down five times or more.
Turn the toner container upside down and shake it five times or more.

**Figure 1-2-8**

4. Shake the toner container approximately five times in the horizontal direction to stir toner.

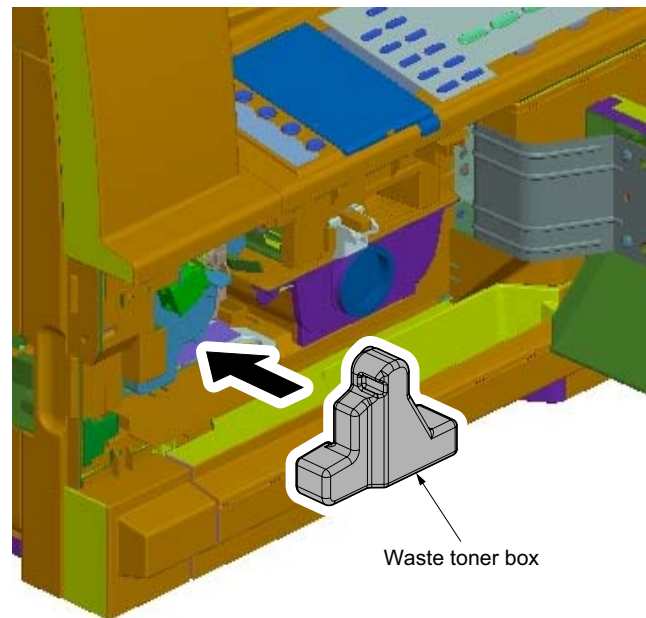
**Figure 1-2-9**

5. Gently push the toner container into the machine.
Push the container all the way into the machine until it locks in place.

**Figure 1-2-10**

Install the waste toner box.

1. Install the waste toner box in the machine.
2. Close the front cover.

**Figure 1-2-11**

Load paper.

1. Load paper in the cassette.

Connect the power cord.

1. Connect the power cord to the connector on the machine.
2. Insert the power plug into the wall outlet.

Installing toner.

1. Turn the main power switch on. Toner installation is started.
2. The drive chain is disengaged when toner installation is completed.
Run maintenance mode U130 if [Add Toner] remains displayed even after the drive chain is disengaged.

Output an own-status report (maintenance item U000).

1. Enter the maintenance mode by entering 10871087 using the numeric keys.
2. Enter 000 using the numeric keys and press the start key.
3. Select d-L and press the start key to output a list of the current settings of the maintenance items.
4. Press the stop/clear key.

Exit maintenance mode.

1. Enter 001 using the numeric keys and press the start key. The machine exits the maintenance mode.

Make test copies.

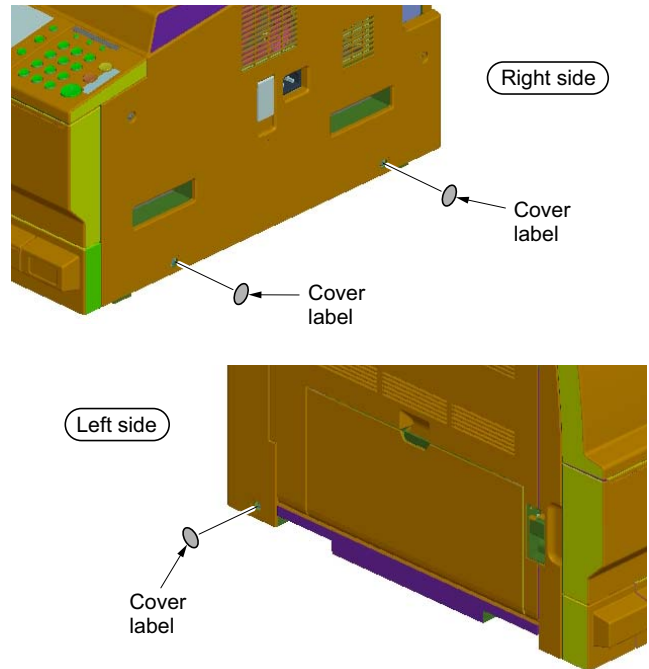
1. Place an original and make test copies.

Attaching the operation label.

1. According to need, attach the correspond operation label.

Attaching the cover label.

1. Attach the cover labels to three screw holes in the machine.
Right side: Two
Left side: One

**Figure 1-2-12****Completion of the machine installation.**

(2) Setting initial copy modes

Factory settings are as follows:

Maintenance item No.	Contents	Factory setting
U253	Switching between double and single counts	DOUBLE COUNT(A3/LEDGER)
U254	Turning auto start function on/off	ON
U260	Selecting the timing for copy counting	After ejection
U277	Setting auto application change time	30 s
U285	Setting service status page	ON
U342	Setting the ejection restriction	ON
U343	Switching between duplex/simplex copy mode	OFF
U344	Setting the low-power mode	ENERGY STAR (inch specifications) GEEA (metric specifications)

1-2-3 Installing the key counter (option)

Installing the key counter requires the following component:

Key counter (P/N 3025418011)
 Key counter set (P/N 302A369708)
 Key counter wire set (P/N 302KK94590)
 Key counter mounting plate (P/N 2C960100)

Supplied parts of key counter set:

Key counter socket assembly (P/N 3029236241)
 Key counter cover (P/N 3066060011)
 Key counter mount (P/N 3066060041)
 Key counter retainer (P/N 302GR03020)
 Key counter cover retainer (P/N 302GR03010)
 Two (2) Edgings (P/N 7YZM210006++H01)
 One (1) Band (P/N M21AH010)
 One (1) M3 × 8 tap-tight P screw (P/N 5MBTPB3008PW++R)
 Two (2) M4 × 10 tap-tight P screws (P/N 5MBTPB4010PW++R)
 Two (2) M4 × 10 tap-tight S screws (P/N 5MBTPB4010TW++R)
 Two (2) M3 × 6 bronze flat-head screws (P/N 7BB003306H)
 One (1) M4 × 20 tap-tight S screw (P/N 7BB100420H)
 One (1) M3 bronze nut (P/N 7BC1003055++H01)
 One (1) M3 × 8 bronze binding screw (P/N B1B03080)
 One (1) M4 × 30 tap-tight S screw (P/N B1B54300)
 Five (5) M4 × 6 chrome TP screws (P/N B4A04060)
 Two (2) M4 × 10 chrome TP screws (P/N B4A04100)

Supplied parts of key counter wire set:

Key counter wire (P/N 302KK46300)
 One (1) Wire saddle RLWC-1SV (P/N 7YZM610001++H01)
 One (1) Wire saddle RLWT-0.5V (P/N 7YZM610009++H01)
 One (1) Edging (P/N 7YZM210003++H01)

Procedure

1. Turn the main power switch off and unplug the power cable from the wall outlet.
2. Fit the key counter socket assembly to the key counter retainer using two screws and nut.
3. Fit the key counter mount to the key counter cover using two screws.
4. Fit the key counter retainer to the key counter mount using two screws.

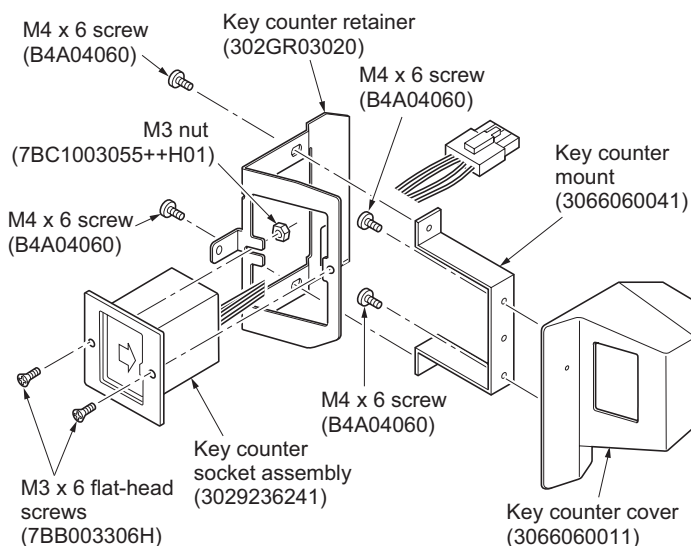


Figure 1-2-13

5. Remove five screws and remove the rear cover.

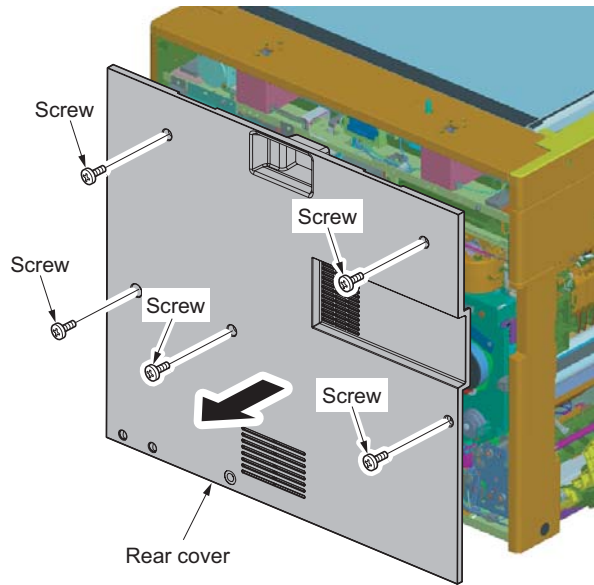


Figure 1-2-14

6. Cut out the aperture on the right middle cover using nippers.

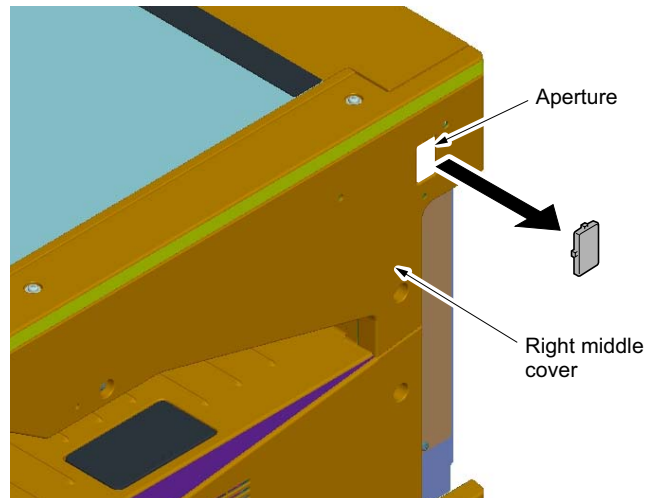


Figure 1-2-15

7. Fit the wire saddle and the edging to machine.

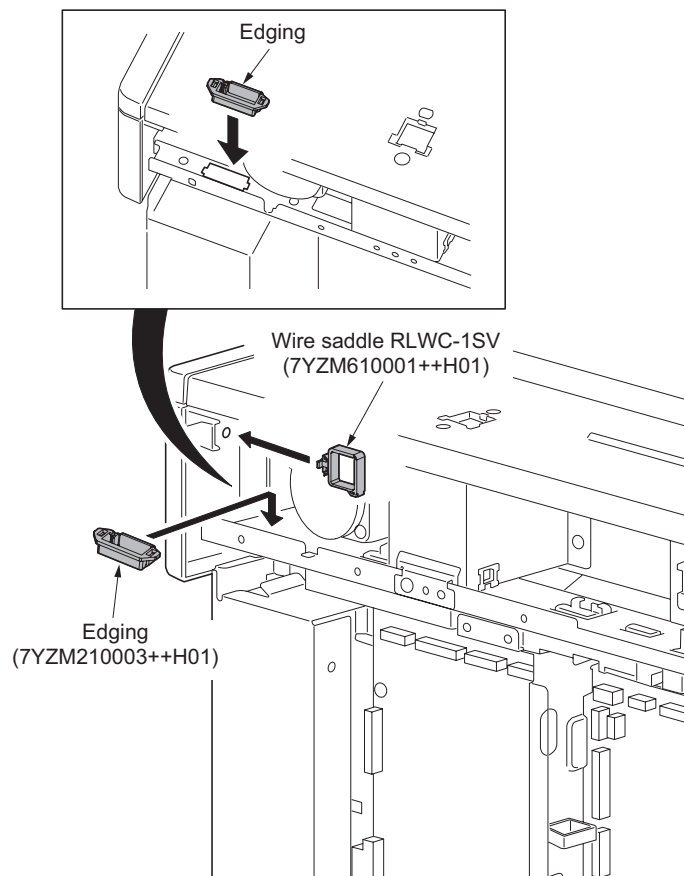


Figure 1-2-16

8. Pass the key counter wire through the wire saddle, edging and hole of the wire guide.

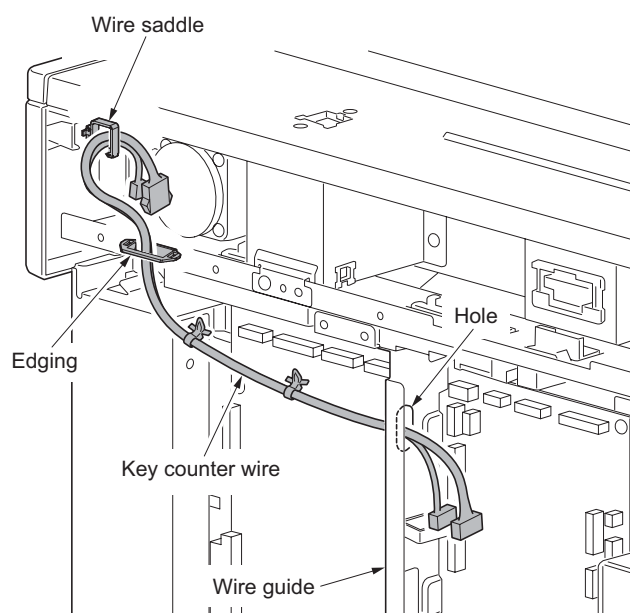


Figure 1-2-17

9. Insert two bands of the key counter wire to the machine.

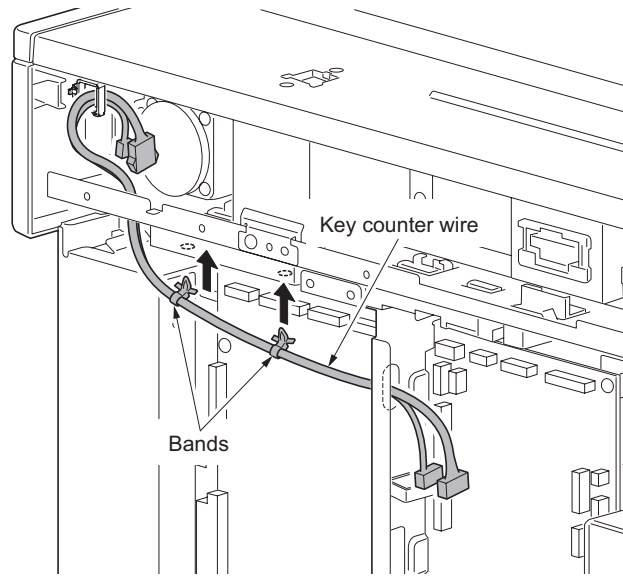


Figure 1-2-18

10. Connect the 4-pin connector of the key counter wire to the YC12 on the main/engine PWB.
11. Pull the other 4-pin connector out from the aperture of the right middle cover.
12. Refit the rear cover.

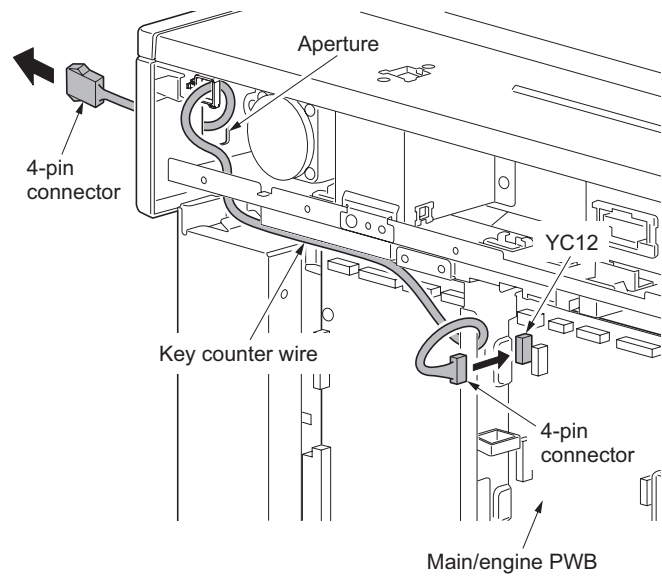


Figure 1-2-19

13. Pass the 4-pin connector of the key counter signal cable through the aperture in the key counter mounting plate.
14. Hook the square hole on the key counter cover onto the key counter mounting plate.

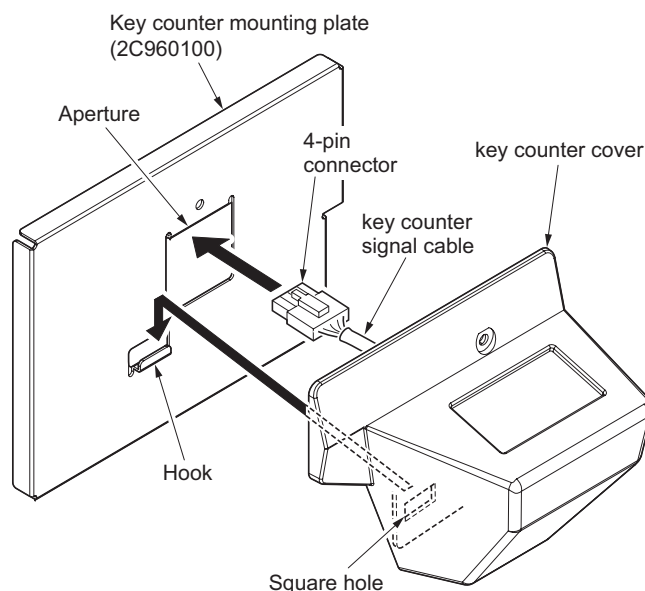


Figure 1-2-20

15. Connect the 4-pin connector of the key counter signal cable to the 4-pin connector of the key counter wire.
16. Insert the hook of the key counter mounting plate in the aperture of the right middle cover.
17. Fit the key counter cover and the key counter mounting plate using the M4 x 30 screw.
18. Insert the key counter into the key counter socket assembly.

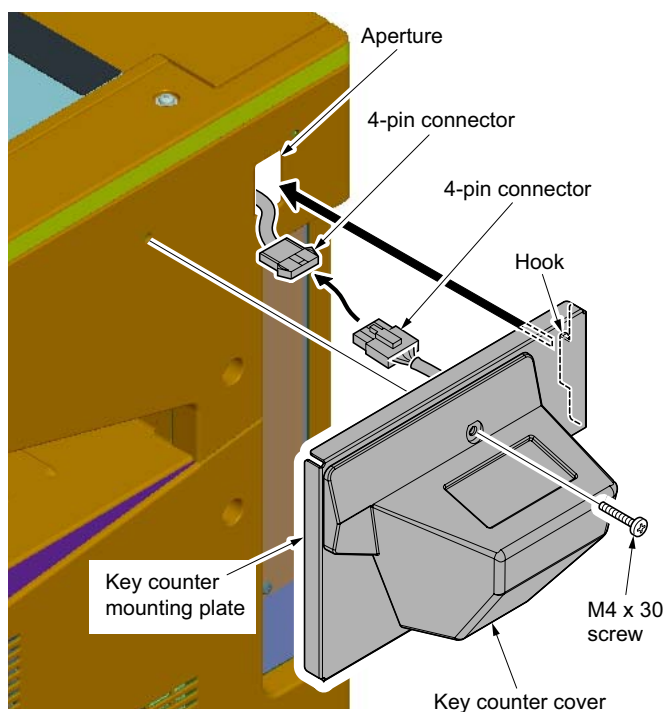


Figure 1-2-21

19. Turn the main power switch on and enter the maintenance mode.
20. Run maintenance item U204 and select "Key counter".
21. Exit the maintenance mode.
22. Check that the message requesting the key counter to be inserted is displayed on the message display when the key counter is pulled out.
23. Check that the counter counts up as copies are made.

1-2-4 Installing the cassette heater (option)

Installing the cassette heater requires the following component:

Cassette heater (P/N 302KK94470): for 220 to 240 V specifications only

Cassette heater (P/N 302KK94460): for 120 V specifications

One (1) M3 x 8 S tight screw (P/N 7BB700308H)

Procedure

1. Open the front cover.
2. Remove the screw and release three hooks and then remove the front right cover.
3. Pull out the cassette.

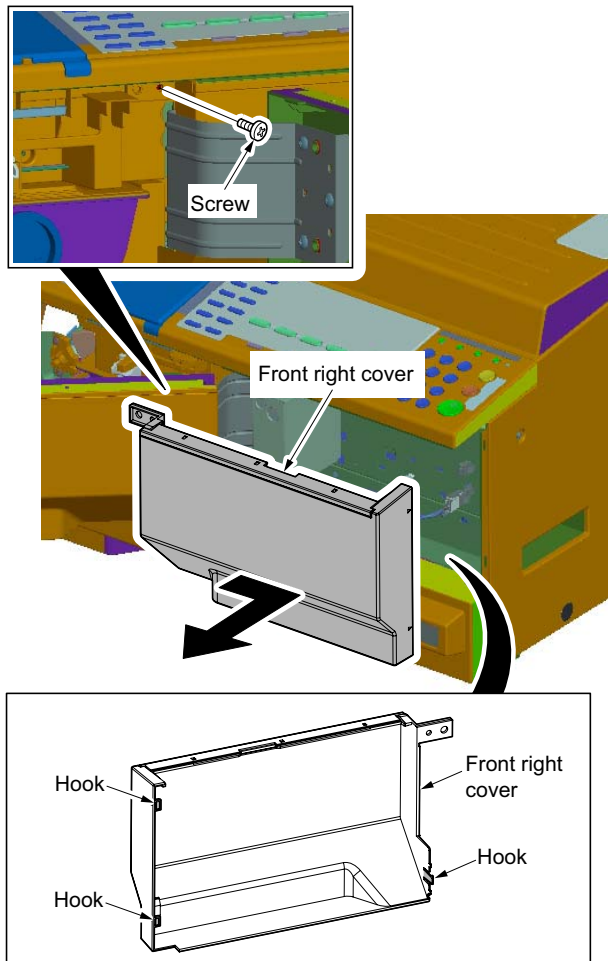


Figure 1-2-22

4. Pass the cassette heater cable through the edging and fit the cassette heater to the machine.

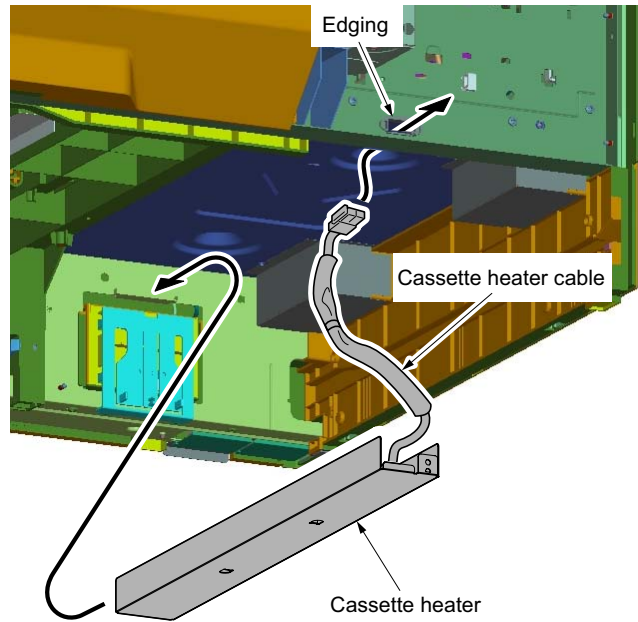


Figure 1-2-23

5. Attach the cassette heater using the M3 x 8 S tight screw.
6. Pass the cassette heater cable through the clamp. Connect the connector of the cassette heater cable to the connector of the machine.
7. Refit all the removed parts.

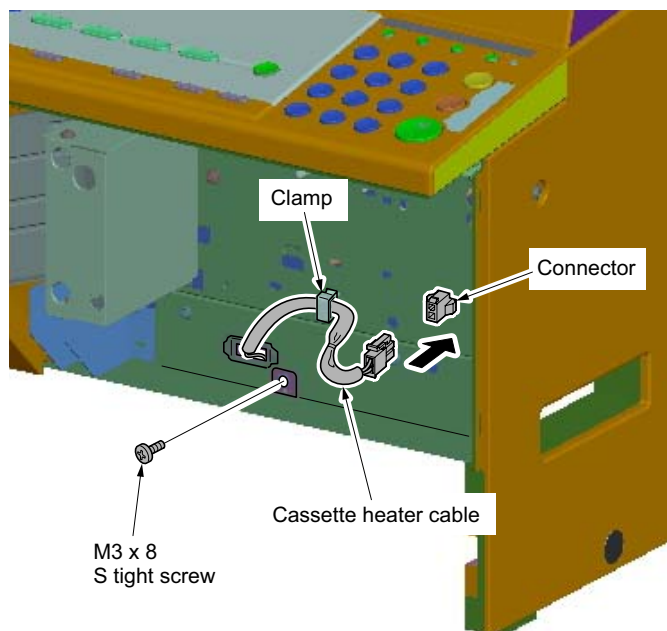


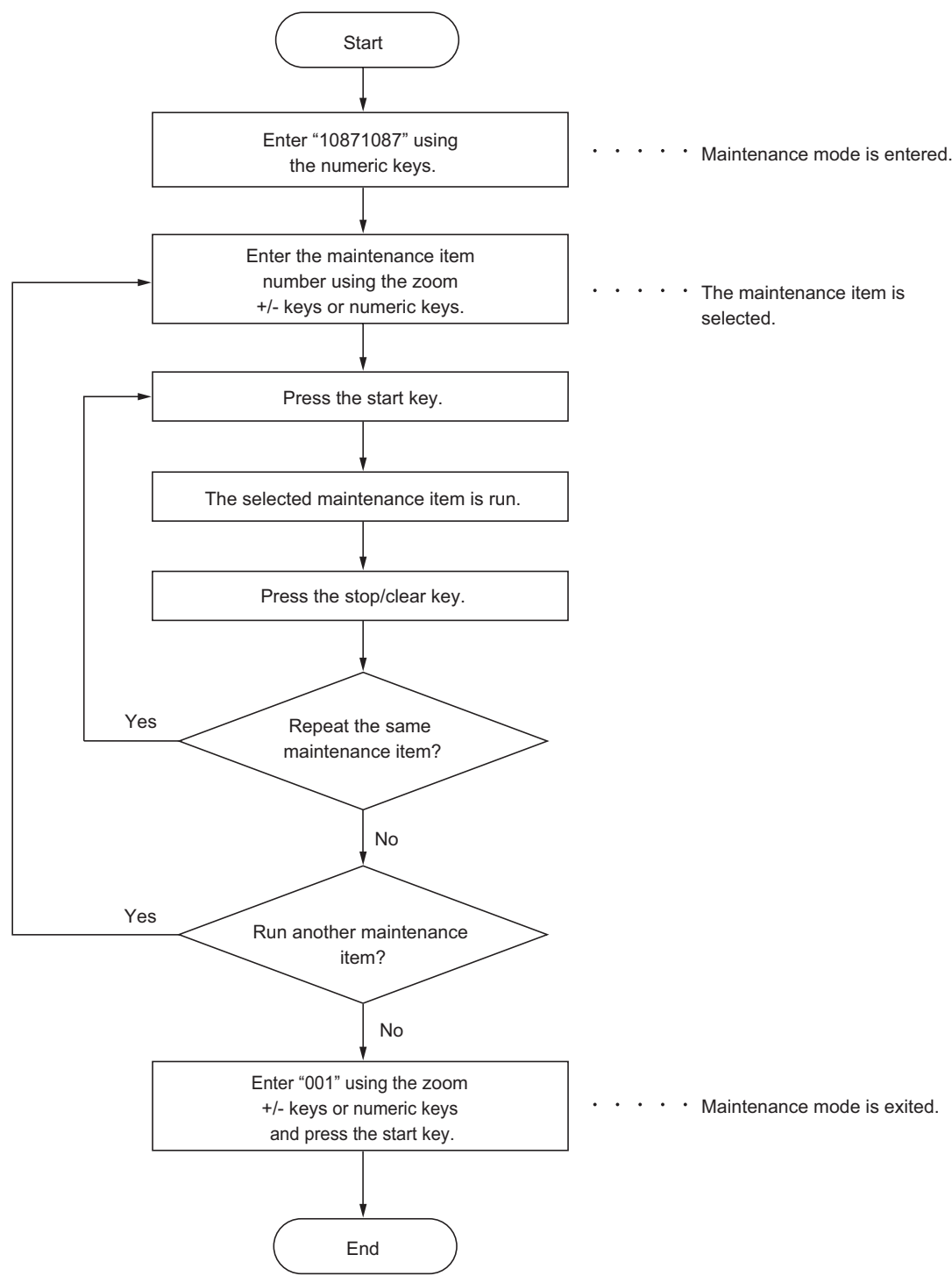
Figure 1-2-24

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1-3-1 Maintenance mode

The copier is equipped with a maintenance function which can be used to maintain and service the machine.

(1) Executing a maintenance item



(2) Maintenance mode item list

Section	Item No.	Content of maintenance item	Initial setting*
General	U000	Outputting an own-status report	-
	U001	Exiting the maintenance mode	-
	U002	Setting the factory default data	-
	U004	Checking the machine number	-
	U005	Copying without paper	-
	U019	Displaying the ROM version	-
Initialization	U020	Initializing all data	-
	U021	Initializing memories	-
Drive, paper feed and paper conveying system	U030	Checking motor operation	-
	U031	Checking switches for paper conveying	-
	U032	Checking clutch operation	-
	U034	Adjusting the print start timing Adjusting the leading edge registration Adjusting the center line Adjusting the trailing edge margin Adjusting the leading edge registration	2.8/0.0/0.0/0.0/0.0/0.8* ¹ -2.4/0.0/0.0/0.0/0.0/0.0* ¹ 2.0* ¹ 2.0/2.0/2.0/2.0/2.0/2.0* ¹
	U035	Setting folio size Length/Width	330/210* ¹
	U051	Adjusting the deflection in the paper	30/20/ 0/ -20/ -20/20* ¹
	U053	Performing fine adjustment of the motor speed	0.4/0.6/-0.5/0/0/0.5* ¹ -0.1/-0.2/-0.3* ¹
Optical	U060	Adjusting the scanner input properties	12* ¹
	U061	Turning the exposure lamp on	-
	U063	Adjusting the shading position	0* ¹
	U065	Adjusting the scanner magnification Main scanning direction Auxiliary scanning direction	0 -10* ¹
	U066	Adjusting the scanner leading edge registration	0* ¹
	U067	Adjusting the scanner center line	-10* ¹
	U068	Adjusting the scanning position for originals from the DP	0* ¹
	U070	Adjusting the DP magnification	0/0* ¹
	U071	Adjusting the DP scanning timing	0/0/0* ¹
	U072	Adjusting the DP center line	0/0* ¹
	U073	Checking scanner operation	-
	U074	Adjusting the DP input light luminosity	1* ¹
	U076	Adjusting the DP automatically	-
	U087	Setting DP reading position modification operation	ON/35* ¹
	U088	Setting the input filter (moire reduction mode)	Off* ¹
	U089	Outputting a MIP-PG pattern	-
	U092	Adjusting the scanner automatically	-
	U093	Setting the exposure density gradient Text/text and photo/photo mode	0/0/0* ¹
	U099	Adjusting original size detection	170/30/240* ¹

*Initial setting for executing U020, *1: The item initialized for executing U020, *2: The item initialized for executing U021

Section	Item No.	Content of maintenance item	Initial setting*
High voltage	U100	Setting the main high voltage Grid control voltage Copy interval Copy quantity Correction amount	107* ¹ 60* ¹ 50* ¹ 10* ¹
	U101	Setting the other high voltages	27/45/22/45/123/126/33/31* ¹ 1/20/42/2* ¹
	U110	Checking the drum count	-
Developing	U130	Initial setting for the developing unit	-
	U144	Setting toner loading operation	Off/5/30* ¹
	U150	Checking sensors for toner	-
	U157	Checking/clearing the developing drive time	-
	U158	Checking the developing count	-
Fuser and cleaning	U161	Setting the fuser control temperature Primary stabilization fuser temperature Secondary stabilization fuser temperature Copying operation temperature 1 Copying operation temperature 2 Number of sheets for fuser control Number of sheets for fuser control (thick paper)	145* ¹ 165* ¹ 175* ¹ 185* ¹ 1* ¹ 2* ¹
	U162	Stabilizing fuser forcibly	-
	U163	Resetting the fuser problem data	-
	U167	Checking the fuser count	-
	U198	Setting the fuser phase control	Off* ^{1,2}
	U199	Checking the fuser temperature	-
Operation panel and support equipment	U200	Turning all LEDs on	-
	U203	Checking DP separately	-
	U204	Setting the presence or absence of a key card or key counter	Off* ¹
	U207	Checking the operation panel keys	-
	U243	Checking the operation of the DP motors	-
	U244	Checking the DP switches	-
	U245	Checking messages	-
Mode setting	U250	Setting the maintenance cycle	150000* ^{1,2}
	U251	Checking/clearing the maintenance count	0* ^{1,2}
	U252	Setting the destination	Japan* ¹
	U253	Switching between double and single counts	A3* ^{1,2}
	U254	Turning auto start function on/off	On* ^{1,2}
	U260	Selecting the timing for copy counting	After ejection* ^{1,2}
	U265	Setting the destination specifications	0* ¹
	U277	Setting auto application change time	30* ^{1,2}
	U285	Setting service status page	On* ¹
	U286	Setting the optional language	0* ^{1,2}
	U332	Setting the size conversion factor	1.0* ^{1,2}
	U341	Specific paper feed location setting for printing function	-
	U342	Setting the ejection restriction	On* ^{1,2}

*Initial setting for executing U020, *1: The item initialized for executing U020, *2: The item initialized for executing U021

Section	Item No.	Content of maintenance item	Initial setting*
Mode setting	U343	Switching between duplex/simplex copy mode	Simplex copy ^{*1}
	U344	Setting the low-power mode	ENERGY STAR (inch) ^{*1,*2} GEEA (metric) ^{*1,*2}
	U345	Setting the value for maintenance due indication	0 ^{*1,*2}
Image processing	U402	Adjusting margins of image printing	3.0/3.5/4.5 ^{*1}
	U403	Adjusting margins for scanning an original on the contact glass	2.0/3.0/2.0/2.0 ^{*1}
	U404	Adjusting margins for scanning an original from the DP	2.0/3.0/2.0/2.0 ^{*1}
	U407	Adjusting the leading edge registration for memory image printing	0.0
Other	U901	Checking/clearing copy counts by paper feed locations	-
	U903	Checking/clearing the paper jam counts	-
	U904	Checking/clearing the service call counts	-
	U905	Checking counts by optional devices	-
	U908	Checking the total count	-
	U910	Clearing the black ratio data	-
	U911	Checking/clearing copy counts by paper sizes	-
	U920	Checking the accounting counts	
	U927	Clearing the all copy counts and machine life counts (one time only)	-
	U928	Checking the machine life count	-
	U931	Setting the automatic toner install	Off ^{*1}
	U941	Setting the default magnification ratio of the default cassette	100% ^{*1}
	U942	Setting of amount of slack for feeding from DP	0/0 ^{*1}
	U955	Setting operation panel type	0/0 ^{*1,*2}
	U969	Checking of toner area code	-
	U990	Checking/clearing the time for the exposure lamp to light	-
	U991	Checking the scanner count	-
	U993	Outputting a VTC-PG pattern	-

*Initial setting for executing U020, *1: The item initialized for executing U020, *2: The item initialized for executing U021

(3) Contents of maintenance mode items

Maintenance item No.	Description								
U000	<p>Outputting an own-status report</p> <p>Description Outputs lists of the current settings of the maintenance items, and paper jam and service call occurrences.</p> <p>Purpose To check the current setting of the maintenance items, or paper jam or service call occurrences. Before initializing the backup RAM, output a list of the current settings of the maintenance items to reenter the settings after initialization or replacement.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item to be output using the exposure adjustment keys. <table border="1" data-bbox="335 604 1398 770"> <thead> <tr> <th>Display</th><th>Output list</th></tr> </thead> <tbody> <tr> <td>d-L</td><td>List of the current settings of the maintenance modes</td></tr> <tr> <td>J-L</td><td>List of the paper jam occurrences</td></tr> <tr> <td>C-L</td><td>List of the service call occurrences</td></tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. A list is output. When A4/Letter paper is available, a report of this size is output. If not, specify the paper feed location. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Output list	d-L	List of the current settings of the maintenance modes	J-L	List of the paper jam occurrences	C-L	List of the service call occurrences
Display	Output list								
d-L	List of the current settings of the maintenance modes								
J-L	List of the paper jam occurrences								
C-L	List of the service call occurrences								
U001	<p>Exiting the maintenance mode</p> <p>Description Exits the maintenance mode and returns to the normal copy mode.</p> <p>Purpose To exit the maintenance mode.</p> <p>Method Press the start key. The normal copy mode is entered.</p>								
U002	<p>Setting the factory default data</p> <p>Description Restores the machine conditions to the factory default settings.</p> <p>Purpose To move the mirror frame of the scanner to the position for transport (position in which the frame can be fixed).</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select [on] using the zoom +/- keys. 3. Press the start key. The mirror frame of the scanner returns to the position for transport. <p>Completion The power switch turns off.</p>								

Maintenance item No.	Description																																																														
U004	<p>Checking the machine number</p> <p>Description Displays the machine number.</p> <p>Purpose To check the machine number.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Change the indication of the copy quantity display using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Copy quantity display</th></tr><tr><td>Exp. 1 (lit)</td><td>1st digit of machine number</td></tr><tr><td>Exp. 2 (lit)</td><td>2nd digit of machine number</td></tr><tr><td>Exp. 3 (lit)</td><td>3rd digit of machine number</td></tr><tr><td>Exp. 4 (lit)</td><td>4th digit of machine number</td></tr><tr><td>Exp. 5 (lit)</td><td>5th digit of machine number</td></tr><tr><td>Exp. 1 (flashing)</td><td>6th digit of machine number</td></tr><tr><td>Exp. 2 (flashing)</td><td>7th digit of machine number</td></tr><tr><td>Exp. 3 (flashing)</td><td>8th digit of machine number</td></tr><tr><td>Exp. 4 (flashing)</td><td>9th digit of machine number</td></tr><tr><td>Exp. 5 (flashing)</td><td>10th digit of machine number</td></tr></table> <p>Code Corresponding Table</p> <table><tr><td>0: 30</td><td>A: 41</td><td>K: 4B</td><td>U: 55</td></tr><tr><td>1: 31</td><td>B: 42</td><td>L: 4C</td><td>V: 56</td></tr><tr><td>2: 32</td><td>C: 43</td><td>M: 4D</td><td>W: 57</td></tr><tr><td>3: 33</td><td>D: 44</td><td>N: 4E</td><td>X: 58</td></tr><tr><td>4: 34</td><td>E: 45</td><td>O: 4F</td><td>Y: 59</td></tr><tr><td>5: 35</td><td>F: 46</td><td>P: 50</td><td>Z: 5A</td></tr><tr><td>6: 36</td><td>G: 47</td><td>Q: 51</td><td></td></tr><tr><td>7: 37</td><td>H: 48</td><td>R: 52</td><td></td></tr><tr><td>8: 38</td><td>I: 49</td><td>S: 53</td><td></td></tr><tr><td>9: 39</td><td>J: 4A</td><td>T: 54</td><td></td></tr></table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Copy quantity display	Exp. 1 (lit)	1st digit of machine number	Exp. 2 (lit)	2nd digit of machine number	Exp. 3 (lit)	3rd digit of machine number	Exp. 4 (lit)	4th digit of machine number	Exp. 5 (lit)	5th digit of machine number	Exp. 1 (flashing)	6th digit of machine number	Exp. 2 (flashing)	7th digit of machine number	Exp. 3 (flashing)	8th digit of machine number	Exp. 4 (flashing)	9th digit of machine number	Exp. 5 (flashing)	10th digit of machine number	0: 30	A: 41	K: 4B	U: 55	1: 31	B: 42	L: 4C	V: 56	2: 32	C: 43	M: 4D	W: 57	3: 33	D: 44	N: 4E	X: 58	4: 34	E: 45	O: 4F	Y: 59	5: 35	F: 46	P: 50	Z: 5A	6: 36	G: 47	Q: 51		7: 37	H: 48	R: 52		8: 38	I: 49	S: 53		9: 39	J: 4A	T: 54	
Exposure indicator	Copy quantity display																																																														
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0: 30	A: 41	K: 4B	U: 55																																																												
1: 31	B: 42	L: 4C	V: 56																																																												
2: 32	C: 43	M: 4D	W: 57																																																												
3: 33	D: 44	N: 4E	X: 58																																																												
4: 34	E: 45	O: 4F	Y: 59																																																												
5: 35	F: 46	P: 50	Z: 5A																																																												
6: 36	G: 47	Q: 51																																																													
7: 37	H: 48	R: 52																																																													
8: 38	I: 49	S: 53																																																													
9: 39	J: 4A	T: 54																																																													

Maintenance item No.	Description						
U005	<p>Copying without paper</p> <p>Description Simulates the copy operation without paper feed.</p> <p>Purpose To check the overall operation of the machine.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item to be operated using the exposure adjustment keys. <table border="1" data-bbox="333 506 1398 631"> <thead> <tr> <th>Display</th><th>Operation</th></tr> </thead> <tbody> <tr> <td>P</td><td>Only the machine operates.</td></tr> <tr> <td>P-d</td><td>Both the machine and DP operate (continuous operation).</td></tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the interrupt key. 4. Set the operation conditions required. Changes in the following settings can be made. Paper feed locations Magnifications Number of copies: continuous copying is performed when set to 250. Copy density Keys on the operation panel other than the energy saver (preheat) key 5. To control the paper feed pulley, remove all the paper in the cassettes, or the cassettes. With the paper present, the paper feed pulley does not operate. 6. Press the start key. Copy operation is simulated without paper under the set conditions. 7. To stop continuous operation, press the stop/reset key. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Operation	P	Only the machine operates.	P-d	Both the machine and DP operate (continuous operation).
Display	Operation						
P	Only the machine operates.						
P-d	Both the machine and DP operate (continuous operation).						

Maintenance item No.	Description																					
U019	<p>Displaying the ROM version</p> <p>Description Displays the part number of the ROM fitted to each board.</p> <p>Purpose To check the part number or to decide if the ROM version is new from the last digit of the number.</p> <p>Method</p> <ol style="list-style-type: none">Press the start key.Select the item to be displayed using the image mode selection key and exposure adjustment keys. <table><tr><th>Image mode LEDs</th><th>Exposure indicator</th><th>Copy quantity display</th></tr><tr><td><p><input type="radio"/> Text & Photo</p><p><input type="radio"/> Photo</p><p><input checked="" type="radio"/> Text</p></td><td><p>Exp. 1 (lit)</p><p>Exp. 2 (lit)</p><p>Exp. 3 (lit)</p><p>Exp. 4 (lit)</p></td><td><p>“A” Part Code: Main PWB</p><p>Change history of the main PWB</p><p>Number of the main ROM</p><p>Number of the main ROM sub</p></td></tr><tr><td><p><input type="radio"/> Text & Photo</p><p><input checked="" type="radio"/> Photo</p><p><input checked="" type="radio"/> Text</p></td><td><p>Exp. 1 (lit)</p><p>Exp. 2 (lit)</p><p>Exp. 3 (lit)</p><p>Exp. 4 (lit)</p><p>Exp. 5 (lit)</p><p>Exp. 1 (flashing)</p></td><td><p>“E” Part Code: Engine PWB</p><p>Change history of the engine PWB</p><p>Number of the engine ROM</p><p>Number of the engine ROM sub</p><p>Change history of the engine PWB BOOT</p><p>Number of the engine PWB BOOT</p></td></tr><tr><td><p><input checked="" type="radio"/> Text & Photo</p><p><input checked="" type="radio"/> Photo</p><p><input checked="" type="radio"/> Text</p></td><td><p>Exp. 1 (lit)</p><p>Exp. 2 (lit)</p><p>Exp. 3 (lit)</p><p>Exp. 4 (lit)</p><p>Exp. 5 (lit)</p></td><td><p>“L” Part Code: Language</p><p>Change history of the standard language</p><p>Number of the standard language ROM</p><p>Change history of the optional language</p><p>Number of the optional language ROM</p></td></tr><tr><td><p><input checked="" type="radio"/> Text & Photo</p><p><input checked="" type="radio"/> Photo</p><p> Text</p></td><td><p>Exp. 1 (lit)</p><p>Exp. 2 (lit)</p><p>Exp. 3 (lit)</p><p>Exp. 4 (lit)</p></td><td><p>“C” Part Code: Cassette</p><p>Number of the optional first paper feeder ROM</p><p>Number of the optional second paper feeder ROM</p><p>Number of the optional third paper feeder ROM</p></td></tr><tr><td><p><input checked="" type="radio"/> Text & Photo</p><p> Photo</p><p> Text</p></td><td><p>Exp. 1 (lit)</p><p>Exp. 2 (lit)</p></td><td><p>“d” Part Code: DP</p><p>Number of the optional DP ROM</p></td></tr><tr><td><p> Text & Photo</p><p> Photo</p><p> Text</p></td><td><p>Exp. 1 (lit)</p><p>Exp. 2 (lit)</p><p>Exp. 3 (lit)</p></td><td><p>“P” Part Code: Printer</p><p>Change history of the optional printer</p><p>Number of the optional printer ROM</p></td></tr></table> <p><input type="radio"/> : Off, <input checked="" type="radio"/> : On, : Flashing</p> <p>When the optional equipment is not installed, [non] is displayed.</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LEDs	Exposure indicator	Copy quantity display	<p><input type="radio"/> Text & Photo</p> <p><input type="radio"/> Photo</p> <p><input checked="" type="radio"/> Text</p>	<p>Exp. 1 (lit)</p> <p>Exp. 2 (lit)</p> <p>Exp. 3 (lit)</p> <p>Exp. 4 (lit)</p>	<p>“A” Part Code: Main PWB</p> <p>Change history of the main PWB</p> <p>Number of the main ROM</p> <p>Number of the main ROM sub</p>	<p><input type="radio"/> Text & Photo</p> <p><input checked="" type="radio"/> Photo</p> <p><input checked="" type="radio"/> Text</p>	<p>Exp. 1 (lit)</p> <p>Exp. 2 (lit)</p> <p>Exp. 3 (lit)</p> <p>Exp. 4 (lit)</p> <p>Exp. 5 (lit)</p> <p>Exp. 1 (flashing)</p>	<p>“E” Part Code: Engine PWB</p> <p>Change history of the engine PWB</p> <p>Number of the engine ROM</p> <p>Number of the engine ROM sub</p> <p>Change history of the engine PWB BOOT</p> <p>Number of the engine PWB BOOT</p>	<p><input checked="" type="radio"/> Text & Photo</p> <p><input checked="" type="radio"/> Photo</p> <p><input checked="" type="radio"/> Text</p>	<p>Exp. 1 (lit)</p> <p>Exp. 2 (lit)</p> <p>Exp. 3 (lit)</p> <p>Exp. 4 (lit)</p> <p>Exp. 5 (lit)</p>	<p>“L” Part Code: Language</p> <p>Change history of the standard language</p> <p>Number of the standard language ROM</p> <p>Change history of the optional language</p> <p>Number of the optional language ROM</p>	<p><input checked="" type="radio"/> Text & Photo</p> <p><input checked="" type="radio"/> Photo</p> <p> Text</p>	<p>Exp. 1 (lit)</p> <p>Exp. 2 (lit)</p> <p>Exp. 3 (lit)</p> <p>Exp. 4 (lit)</p>	<p>“C” Part Code: Cassette</p> <p>Number of the optional first paper feeder ROM</p> <p>Number of the optional second paper feeder ROM</p> <p>Number of the optional third paper feeder ROM</p>	<p><input checked="" type="radio"/> Text & Photo</p> <p> Photo</p> <p> Text</p>	<p>Exp. 1 (lit)</p> <p>Exp. 2 (lit)</p>	<p>“d” Part Code: DP</p> <p>Number of the optional DP ROM</p>	<p> Text & Photo</p> <p> Photo</p> <p> Text</p>	<p>Exp. 1 (lit)</p> <p>Exp. 2 (lit)</p> <p>Exp. 3 (lit)</p>	<p>“P” Part Code: Printer</p> <p>Change history of the optional printer</p> <p>Number of the optional printer ROM</p>
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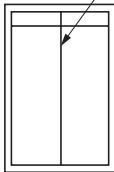
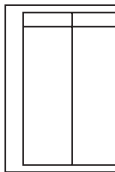
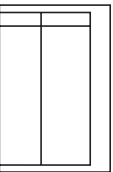
Maintenance item No.	Description						
U020	<p>Initializing all data</p> <p>Description Initializes all the backup RAM on the main PWB to return to the original settings. Refer to *1 of the maintenance mode item list about the item initialized. Reset each initialized mode based on an own-status report U000 printed at installing the machine.</p> <p>Purpose Run as needed.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select "on" using the zoom +/- keys. <table border="1" data-bbox="335 564 1398 689"> <thead> <tr> <th>Display</th><th>Operation</th></tr> </thead> <tbody> <tr> <td>- - -</td><td>Canceling initialization</td></tr> <tr> <td>on</td><td>Executing initialization</td></tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. All data in the backup RAM is initialized, and the original settings for Japan specifications are set. 4. When initialization is complete, the machine automatically returns to the same status as when the power switch is turned on. 	Display	Operation	- - -	Canceling initialization	on	Executing initialization
Display	Operation						
- - -	Canceling initialization						
on	Executing initialization						
U021	<p>Initializing memories</p> <p>Description Initializes all settings, except those pertinent to the type of machine, namely each counter, service call history and mode setting. Also initializes backup RAM according to region specification selected in maintenance item U252 Setting the destination. Refer to *2 of the maintenance mode item list about the item initialized.</p> <p>Purpose Used to return the machine settings to the factory settings.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select "on" using the zoom +/- keys. <table border="1" data-bbox="335 1153 1398 1279"> <thead> <tr> <th>Display</th><th>Operation</th></tr> </thead> <tbody> <tr> <td>- - -</td><td>Canceling initialization</td></tr> <tr> <td>on</td><td>Executing initialization</td></tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. All data other than that for adjustments due to variations between machines is initialized based on the destination setting. 4. When initialization is complete, the machine automatically returns to the same status as when the power switch is turned on. 	Display	Operation	- - -	Canceling initialization	on	Executing initialization
Display	Operation						
- - -	Canceling initialization						
on	Executing initialization						

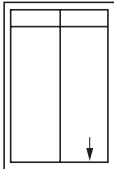
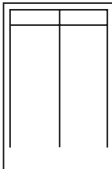
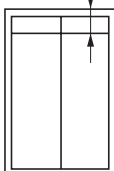
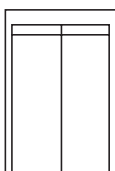
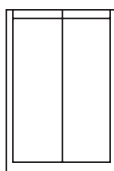
Maintenance item No.	Description																
U030	<p>Checking motor operation</p> <p>Description Drives each motor.</p> <p>Purpose To check the operation of each motor.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the motor to be operated using the exposure adjustment keys. <table border="1"> <thead> <tr> <th>Display</th><th>Motor</th></tr> </thead> <tbody> <tr> <td>A</td><td>Drive motor (DM) is turned ON</td></tr> <tr> <td>2F</td><td>Drum motor (DRM) is turned ON</td></tr> <tr> <td>F1</td><td>Cassette drive motor 1 (CDM1) is turned ON (option)</td></tr> <tr> <td>F2</td><td>Cassette drive motor 2 (CDM2) is turned ON (option)</td></tr> <tr> <td>F3</td><td>Cassette drive motor 3 (CDM3) is turned ON (option)</td></tr> <tr> <td>EJ1</td><td>Eject motor (EM) forward rotation is turned ON</td></tr> <tr> <td>EJ2</td><td>Eject motor (EM) reverse rotation is turned ON</td></tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. The selected motor operates. 4. To stop operation, press the stop/reset key. <p>Completion Press the stop/clear key after operation stops. The screen for selecting a maintenance item No. is displayed.</p>	Display	Motor	A	Drive motor (DM) is turned ON	2F	Drum motor (DRM) is turned ON	F1	Cassette drive motor 1 (CDM1) is turned ON (option)	F2	Cassette drive motor 2 (CDM2) is turned ON (option)	F3	Cassette drive motor 3 (CDM3) is turned ON (option)	EJ1	Eject motor (EM) forward rotation is turned ON	EJ2	Eject motor (EM) reverse rotation is turned ON
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F3	Cassette drive motor 3 (CDM3) is turned ON (option)																
EJ1	Eject motor (EM) forward rotation is turned ON																
EJ2	Eject motor (EM) reverse rotation is turned ON																
U031	<p>Checking switches for paper conveying</p> <p>Description Displays the on-off status of each paper detection switch on the paper path.</p> <p>Purpose To check if the switches for paper conveying operate correctly.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Turn each switch on and off manually to check the status. When the on-status of a switch is detected, the original size indicator corresponding to the operated switch lights. <table border="1"> <thead> <tr> <th>Original size indicator</th><th>Switch</th></tr> </thead> <tbody> <tr> <td>A3R/Ledger</td><td>Eject switch (ESW)</td></tr> <tr> <td>A4R/Legal</td><td>Registration switch (RSW)</td></tr> <tr> <td>A5R/Legal</td><td>Cassette feed switch 1 (CFSW1) (option)</td></tr> <tr> <td>A4/Letter-R</td><td>Cassette feed switch 2 (CFSW2) (option)</td></tr> <tr> <td>B4R/Letter</td><td>Feedshift switch (FSSW)</td></tr> <tr> <td>B5R/Statement</td><td>Duplex paper conveying switch (DUPPCSW) (option)</td></tr> </tbody> </table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Original size indicator	Switch	A3R/Ledger	Eject switch (ESW)	A4R/Legal	Registration switch (RSW)	A5R/Legal	Cassette feed switch 1 (CFSW1) (option)	A4/Letter-R	Cassette feed switch 2 (CFSW2) (option)	B4R/Letter	Feedshift switch (FSSW)	B5R/Statement	Duplex paper conveying switch (DUPPCSW) (option)		
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B5R/Statement	Duplex paper conveying switch (DUPPCSW) (option)																

Maintenance item No.	Description																
U032	<p>Checking clutch operation</p> <p>Description Turns each clutch or solenoid on.</p> <p>Purpose To check the operation of each clutch or solenoid.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the clutch or solenoid to be operated using the exposure adjustment keys. 3. Press the start key. The selected clutch turns on for 1 s. <table border="1" data-bbox="335 533 1398 866"> <thead> <tr> <th>Display</th><th>Clutch</th></tr> </thead> <tbody> <tr> <td>P1</td><td>Paper feed clutch (PFCL)</td></tr> <tr> <td>Pb</td><td>MP solenoid (MPSOL)</td></tr> <tr> <td>A1</td><td>Registration clutch (RCL)</td></tr> <tr> <td>d1</td><td>Duplex feed clutch (DUPFCL) (option)</td></tr> <tr> <td>P2</td><td>Cassette paper feed clutch 1 (CPFCL1) (option)</td></tr> <tr> <td>P3</td><td>Cassette paper feed clutch 2 (CPFCL2) (option)</td></tr> <tr> <td>P4</td><td>Cassette paper feed clutch 3 (CPFCL3) (option)</td></tr> </tbody> </table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Clutch	P1	Paper feed clutch (PFCL)	Pb	MP solenoid (MPSOL)	A1	Registration clutch (RCL)	d1	Duplex feed clutch (DUPFCL) (option)	P2	Cassette paper feed clutch 1 (CPFCL1) (option)	P3	Cassette paper feed clutch 2 (CPFCL2) (option)	P4	Cassette paper feed clutch 3 (CPFCL3) (option)
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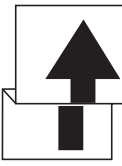
Maintenance item No.	Description																																													
U034	<p>Adjusting the print start timing</p> <p>Description Adjusts the leading edge registration, center line or trailing edge margin.</p> <p>Purpose Make the adjustment if there is a regular error between the leading edges of the copy image and original. Make the adjustment if there is a regular error between the center lines of the copy image and original. Make the adjustment if there is a regular error between the trailing edges of the copy image and original.</p> <p>Method</p> <ol style="list-style-type: none">Press the start key.Select the item using the image mode selection key. <table><tr><th>Image mode LEDs (group No.)</th><th>Description</th></tr><tr><td>1<ul style="list-style-type: none"><input type="radio"/> Text & Photo<input type="radio"/> Photo<input checked="" type="radio"/> Text</td><td>Leading edge registration adjustment</td></tr><tr><td>2<ul style="list-style-type: none"><input type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text</td><td>Center line adjustment</td></tr><tr><td>3<ul style="list-style-type: none"><input checked="" type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text</td><td>Trailing edge margin adjustment</td></tr><tr><td>4<ul style="list-style-type: none"><input checked="" type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text</td><td>Leading edge registration adjustment for printer</td></tr></table> <p>○ : Off, ● : On, : Flashing</p> <p>Adjustment: leading edge registration adjustment</p> <ol style="list-style-type: none">Select group 1 using the image mode selection key.Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1 (lit)</td><td>Paper feed from cassette</td><td>-5.0 to 10.0</td><td>2.8</td><td>0.1 mm</td></tr><tr><td>Exp. 2 (lit)</td><td>Paper feed from MP tray</td><td>-5.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 3 (lit)</td><td>Paper feed from optional first paper feeder</td><td>-5.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 4 (lit)</td><td>Paper feed from optional second paper feeder</td><td>-5.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 5 (lit)</td><td>Paper feed from optional third paper feeder</td><td>-5.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 1 (flashing)</td><td>Duplex mode</td><td>-5.0 to 10.0</td><td>0.8</td><td>0.1 mm</td></tr></table> <ol style="list-style-type: none">Press the interrupt key.Press the start key to output a test pattern.Change the setting value using the zoom +/- keys. For output example 1, decrease the value. For output example 2, increase the value. <div><p>Leading edge registration (20 ± 1.0 mm)</p><p>Correct image Output example 1 Output example 2</p></div> <p>Figure 1-3-1</p>	Image mode LEDs (group No.)	Description	1 <ul style="list-style-type: none"><input type="radio"/> Text & Photo<input type="radio"/> Photo<input checked="" type="radio"/> Text	Leading edge registration adjustment	2 <ul style="list-style-type: none"><input type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text	Center line adjustment	3 <ul style="list-style-type: none"><input checked="" type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text	Trailing edge margin adjustment	4 <ul style="list-style-type: none"><input checked="" type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text	Leading edge registration adjustment for printer	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1 (lit)	Paper feed from cassette	-5.0 to 10.0	2.8	0.1 mm	Exp. 2 (lit)	Paper feed from MP tray	-5.0 to 10.0	0.0	0.1 mm	Exp. 3 (lit)	Paper feed from optional first paper feeder	-5.0 to 10.0	0.0	0.1 mm	Exp. 4 (lit)	Paper feed from optional second paper feeder	-5.0 to 10.0	0.0	0.1 mm	Exp. 5 (lit)	Paper feed from optional third paper feeder	-5.0 to 10.0	0.0	0.1 mm	Exp. 1 (flashing)	Duplex mode	-5.0 to 10.0	0.8	0.1 mm
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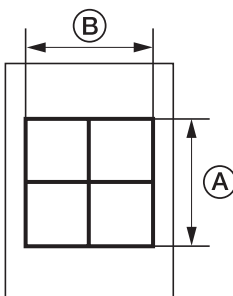
Figure 1-3-1

Maintenance item No.	Description																																			
U034 (cont.)	<div>6. Press the start key. The value is set.</div> <div>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</div> <div><div><div>U034</div><div>→</div><div>U066 (P.1-3-20)</div><div>→</div><div>U071 (P.1-3-24)</div></div></div> <div>Adjustment: center line adjustment<div>1. Select group 2 using the image mode selection key.</div><div>2. Select the item using the exposure adjustment keys.</div><table><thead><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr></thead><tbody><tr><td>Exp. 1 (lit)</td><td>Paper feed from cassette</td><td>-7.0 to 10.0</td><td>-2.4</td><td>0.1 mm</td></tr><tr><td>Exp. 2 (lit)</td><td>Paper feed from MP tray</td><td>-7.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 3 (lit)</td><td>Paper feed from optional first paper feeder</td><td>-7.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 4 (lit)</td><td>Paper feed from optional second paper feeder</td><td>-7.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 5 (lit)</td><td>Paper feed from optional third paper feeder</td><td>-7.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr><tr><td>Exp. 1 (flashing)</td><td>Duplex mode</td><td>-7.0 to 10.0</td><td>0.0</td><td>0.1 mm</td></tr></tbody></table><div>3. Press the interrupt key.</div><div>4. Press the start key to output a test pattern.</div><div>5. Change the setting value using the zoom +/- keys.</div><div>For output example 1, decrease the value. For output example 2, increase the value.</div><div><div>Center line of printing (± 1.0 mm)</div><div><div></div><div></div><div></div></div><div>Correct image Output example 1 Output example 2</div></div></div> <div>Figure 1-3-2</div> <div>6. Press the start key. The value is set.</div> <div>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</div> <div><div><div>U034</div><div>→</div><div>U067 (P.1-3-21)</div><div>→</div><div>U072 (P.1-3-25)</div></div></div>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1 (lit)	Paper feed from cassette	-7.0 to 10.0	-2.4	0.1 mm	Exp. 2 (lit)	Paper feed from MP tray	-7.0 to 10.0	0.0	0.1 mm	Exp. 3 (lit)	Paper feed from optional first paper feeder	-7.0 to 10.0	0.0	0.1 mm	Exp. 4 (lit)	Paper feed from optional second paper feeder	-7.0 to 10.0	0.0	0.1 mm	Exp. 5 (lit)	Paper feed from optional third paper feeder	-7.0 to 10.0	0.0	0.1 mm	Exp. 1 (flashing)	Duplex mode	-7.0 to 10.0	0.0	0.1 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step																																
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Exp. 4 (lit)	Paper feed from optional second paper feeder	-7.0 to 10.0	0.0	0.1 mm																																
Exp. 5 (lit)	Paper feed from optional third paper feeder	-7.0 to 10.0	0.0	0.1 mm																																
Exp. 1 (flashing)	Duplex mode	-7.0 to 10.0	0.0	0.1 mm																																







Maintenance item No.	Description																																		
U034 (cont.)	Adjustment: trailing edge margin adjustment 1. Select group 3 using the image mode selection key.																																		
	<table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Trailing edge margin adjustment</td><td>-4.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr></table>	Description	Setting range	Initial setting	Change in value per step	Trailing edge margin adjustment	-4.0 to 10.0	2.0	0.1 mm																										
	Description	Setting range	Initial setting	Change in value per step																															
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	2. Press the interrupt key.																																		
	3. Press the start key to output a test pattern.																																		
	4. Change the setting value using the zoom +/- keys. For output example, increase the value.																																		
	<div><div></div><div>Correct image</div><div></div><div>Output example</div></div>																																		
	Figure 1-3-3																																		
	5. Press the start key. The value is set.																																		
Adjustment: leading edge registration adjustment for printer 1. Select group 4 using the image mode selection key.																																			
2. Select the item using the exposure adjustment keys.																																			
<table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1 (lit)</td><td>Paper feed from cassette</td><td>-5.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr><tr><td>Exp. 2 (lit)</td><td>Paper feed from MP tray</td><td>-5.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr><tr><td>Exp. 3 (lit)</td><td>Paper feed from optional first paper feeder</td><td>-5.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr><tr><td>Exp. 4 (lit)</td><td>Paper feed from optional second paper feeder</td><td>-5.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr><tr><td>Exp. 5 (lit)</td><td>Paper feed from optional third paper feeder</td><td>-5.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr><tr><td>Exp. 1 (flashing)</td><td>Duplex mode</td><td>-5.0 to 10.0</td><td>2.0</td><td>0.1 mm</td></tr></table>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1 (lit)	Paper feed from cassette	-5.0 to 10.0	2.0	0.1 mm	Exp. 2 (lit)	Paper feed from MP tray	-5.0 to 10.0	2.0	0.1 mm	Exp. 3 (lit)	Paper feed from optional first paper feeder	-5.0 to 10.0	2.0	0.1 mm	Exp. 4 (lit)	Paper feed from optional second paper feeder	-5.0 to 10.0	2.0	0.1 mm	Exp. 5 (lit)	Paper feed from optional third paper feeder	-5.0 to 10.0	2.0	0.1 mm	Exp. 1 (flashing)	Duplex mode	-5.0 to 10.0	2.0	0.1 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step																															
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Exp. 3 (lit)	Paper feed from optional first paper feeder	-5.0 to 10.0	2.0	0.1 mm																															
Exp. 4 (lit)	Paper feed from optional second paper feeder	-5.0 to 10.0	2.0	0.1 mm																															
Exp. 5 (lit)	Paper feed from optional third paper feeder	-5.0 to 10.0	2.0	0.1 mm																															
Exp. 1 (flashing)	Duplex mode	-5.0 to 10.0	2.0	0.1 mm																															
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4. Press the start key to output a test pattern.																																			
5. Change the setting value using the zoom +/- keys. For output example 1, decrease the value. For output example 2, increase the value.																																			
<div><div></div><div>Correct image</div><div></div><div>Output example 1</div><div></div><div>Output example 2</div></div>																																			
Figure 1-3-4																																			
6. Press the start key. The value is set.																																			
Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.																																			

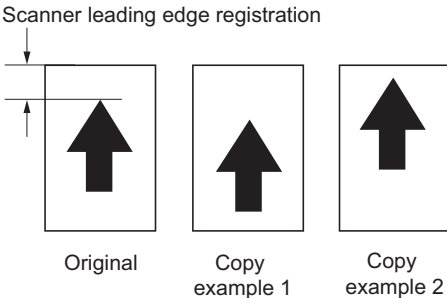
Maintenance item No.	Description												
U035	<p>Setting folio size</p> <p>Description Changes the image area for copying onto folio size paper.</p> <p>Purpose To prevent the image at the trailing edge, or right or left side of the paper from not being copied by setting the actual size of the folio paper used.</p> <p>Method Press the start key.</p> <p>Setting</p> <div><div><div>1. Select the item to be set using the exposure adjustment keys.</div><div>2. Change the setting using the zoom +/- keys.</div></div><table><tr><th>Exposure indicator</th><th>Setting</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>Length</td><td>330 to 356 mm</td><td>330</td></tr><tr><td>Exp. 2</td><td>Width</td><td>200 to 220 mm</td><td>210</td></tr></table></div> <p>3. Press the start key. The value is set.</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Setting	Setting range	Initial setting	Exp. 1	Length	330 to 356 mm	330	Exp. 2	Width	200 to 220 mm	210
Exposure indicator	Setting	Setting range	Initial setting										
Exp. 1	Length	330 to 356 mm	330										
Exp. 2	Width	200 to 220 mm	210										

Maintenance item No.	Description																																			
U051	<p>Adjusting the deflection in the paper</p> <p>Description Adjusts the deflection in the paper.</p> <p>Purpose Make the adjustment if the leading edge of the copy image is missing or varies randomly, or if the copy paper is Z-folded.</p> <p>Adjustment</p> <ol style="list-style-type: none">Press the start key.Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1 (lit)</td><td>Paper feed from cassette</td><td>-50 to 127</td><td>30</td><td>0.32 mm</td></tr><tr><td>Exp. 2 (lit)</td><td>Paper feed from MP tray</td><td>-50 to 127</td><td>20</td><td>0.32 mm</td></tr><tr><td>Exp. 3 (lit)</td><td>Paper feed from optional first paper feeder</td><td>-50 to 127</td><td>0</td><td>0.32 mm</td></tr><tr><td>Exp. 4 (lit)</td><td>Paper feed from optional second paper feeder</td><td>-50 to 127</td><td>-20</td><td>0.32 mm</td></tr><tr><td>Exp. 5 (lit)</td><td>Paper feed from optional third paper feeder</td><td>-50 to 127</td><td>-20</td><td>0.32 mm</td></tr><tr><td>Exp. 1 (flashing)</td><td>Duplex mode</td><td>-50 to 127</td><td>20</td><td>0.32 mm</td></tr></table> <ol style="list-style-type: none">Press the interrupt key.Place an original and press the start key to make a test copy.Change the setting value using the zoom +/- keys. For output example 1, increase the value. For output example 2, decrease the value. The greater the value, the larger the amount of slack; the smaller the value, the smaller the amount of slack. <div><div><p>Original</p></div><div><p>Copy example 1</p></div><div><p>Copy example 2</p></div></div> <p>Figure 1-3-5</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1 (lit)	Paper feed from cassette	-50 to 127	30	0.32 mm	Exp. 2 (lit)	Paper feed from MP tray	-50 to 127	20	0.32 mm	Exp. 3 (lit)	Paper feed from optional first paper feeder	-50 to 127	0	0.32 mm	Exp. 4 (lit)	Paper feed from optional second paper feeder	-50 to 127	-20	0.32 mm	Exp. 5 (lit)	Paper feed from optional third paper feeder	-50 to 127	-20	0.32 mm	Exp. 1 (flashing)	Duplex mode	-50 to 127	20	0.32 mm
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Exp. 5 (lit)	Paper feed from optional third paper feeder	-50 to 127	-20	0.32 mm																																
Exp. 1 (flashing)	Duplex mode	-50 to 127	20	0.32 mm																																

Maintenance item No.	Description															
U053	<p>Performing fine adjustment of the motor speed</p> <p>Description Performs fine adjustment of the speeds of the motors.</p> <p>Purpose Used to adjust the speed of the respective motors when the magnification is not correct. Also speed adjustment for each paper source can be performed in group 2.</p> <p>Method</p> <p>Setting</p> <ol style="list-style-type: none">Press the start key.Select the group using the image mode selection key.Select the item to be set using the exposure adjustment keys. <table><tr><th>Image mode LEDs</th><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td><div><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit) Exp. 5 (lit) Exp. 1 (flashing) Exp. 2 (flashing)</td><td>Drive motor speed adjustment Polygon motor speed adjustment Eject motor speed adjustment Drum motor speed adjustment Eject motor speed adjustment 2 Eject motor speed adjustment 3 Eject motor speed adjustment 4</td><td>-5.0 to 5.0 -5.0 to 4.0 -5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0 0.0 to 5.0</td><td>0.4 0.6 -0.5 0 0 0 0.5</td></tr><tr><td><div><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit)</td><td>Motor speed adjustment (for paper feed from MP tray) Motor speed adjustment (for paper feed from optional paper feeder) Motor speed adjustment (in duplex mode)</td><td>-5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0</td><td>-0.1 -0.2 -0.3</td></tr></table> <p>○ : Off, ● : On</p> <p>Adjustment</p> <ol style="list-style-type: none">Press the interrupt key.Press the start key to output a VTC pattern. <div><p>Correct values for an A3/Ledger output are: A = 300 ± 1.0 mm B = 270 ± 1.0 mm</p></div> <p>Figure 1-3-6</p> <ol style="list-style-type: none">Change the setting value using the zoom +/- keys.<div><p>A: Drive motor speed adjustment Increasing the setting makes the image longer in the auxiliary scanning direction, and decreasing it makes the image shorter in the auxiliary scanning direction.</p><p>B: Polygon motor speed adjustment Increasing the setting makes the image shorter in the main scanning direction, and decreasing it makes the image longer in the main scanning direction.</p></div>Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LEDs	Exposure indicator	Description	Setting range	Initial setting	<div><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit) Exp. 5 (lit) Exp. 1 (flashing) Exp. 2 (flashing)	Drive motor speed adjustment Polygon motor speed adjustment Eject motor speed adjustment Drum motor speed adjustment Eject motor speed adjustment 2 Eject motor speed adjustment 3 Eject motor speed adjustment 4	-5.0 to 5.0 -5.0 to 4.0 -5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0 0.0 to 5.0	0.4 0.6 -0.5 0 0 0 0.5	<div><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit)	Motor speed adjustment (for paper feed from MP tray) Motor speed adjustment (for paper feed from optional paper feeder) Motor speed adjustment (in duplex mode)	-5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0	-0.1 -0.2 -0.3
Image mode LEDs	Exposure indicator	Description	Setting range	Initial setting												
<div><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit) Exp. 5 (lit) Exp. 1 (flashing) Exp. 2 (flashing)	Drive motor speed adjustment Polygon motor speed adjustment Eject motor speed adjustment Drum motor speed adjustment Eject motor speed adjustment 2 Eject motor speed adjustment 3 Eject motor speed adjustment 4	-5.0 to 5.0 -5.0 to 4.0 -5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0 0.0 to 5.0	0.4 0.6 -0.5 0 0 0 0.5												
<div><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit)	Motor speed adjustment (for paper feed from MP tray) Motor speed adjustment (for paper feed from optional paper feeder) Motor speed adjustment (in duplex mode)	-5.0 to 5.0 -5.0 to 5.0 -5.0 to 5.0	-0.1 -0.2 -0.3												

Maintenance item No.	Description								
U060	<p>Adjusting the scanner input properties</p> <p>Description Adjusts the image scanning density.</p> <p>Purpose Used when the entire image appears too dark or light.</p> <p>Method Press the start key.</p> <p>Setting</p> <ol style="list-style-type: none">Press the start key.Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Image scanning density</td><td>0 to 23</td><td>12</td></tr></table> <p>Increasing the setting makes the density lower, and decreasing it makes the density higher.</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Supplement While this maintenance item is being executed, copying from an original is available in interrupt copying mode (which is activated by pressing the interrupt key).</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p> <p>Caution The following settings are also reset to the initial values by performing this maintenance item: Exposure density gradient set in maintenance mode (U093) Exposure set in the copy default item of the copier management mode</p>	Description	Setting range	Initial setting	Image scanning density	0 to 23	12		
Description	Setting range	Initial setting							
Image scanning density	0 to 23	12							
U061	<p>Turning the exposure lamp on</p> <p>Description Turns the exposure lamp on.</p> <p>Purpose To check the exposure lamp.</p> <p>Method</p> <ol style="list-style-type: none">Press the start key. "on" appears.Press the start key. The exposure lamp lights.To turn the exposure lamp off, press the stop/clear key. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>								
U063	<p>Adjusting the shading position</p> <p>Description Changes the shading position.</p> <p>Purpose Used when white lines continue to appear longitudinally on the image after the shading plate is cleaned. This is due to flaws or stains inside the shading plate. To prevent this problem, the shading position should be changed so that shading is possible without being affected by the flaws or stains.</p> <p>Setting</p> <ol style="list-style-type: none">Press the start key.Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Shading position</td><td>-5 to 5</td><td>0</td><td>0.17 mm</td></tr></table> <p>Increasing the setting moves the shading position toward the machine left, and decreasing it moves the position toward the machine right.</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Supplement While this maintenance item is being executed, copying from an original is available in interrupt copying mode (which is activated by pressing the interrupt key).</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Change in value per step	Shading position	-5 to 5	0	0.17 mm
Description	Setting range	Initial setting	Change in value per step						
Shading position	-5 to 5	0	0.17 mm						

Maintenance item No.	Description												
U065	<p>Adjusting the scanner magnification</p> <p>Description Adjusts the magnification of the original scanning.</p> <p>Purpose Make the adjustment if the magnification in the main scanning direction is incorrect. Make the adjustment if the magnification in the auxiliary scanning direction is incorrect.</p> <p>Caution Adjust the magnification of the scanner in the following order.</p> <div><div>U053 (P.1-3-17)</div>→<div>U065 (main scanning direction)</div>→<div>U065 (auxiliary scanning direction)</div>→<div>U067 (P.1-3-21)</div>→<div>U070 (P.1-3-23)</div></div> <p>Method</p> <ol style="list-style-type: none">Press the start key.Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>Scanner magnification in the main scanning direction</td><td>-25 to 25</td><td>0</td></tr><tr><td>Exp. 2</td><td>Scanner magnification in the auxiliary scanning direction</td><td>-25 to 25</td><td>-10</td></tr></table> <p>Adjustment: main scanning direction</p> <ol style="list-style-type: none">Light exp. 1 using the exposure adjustment key.Press the interrupt key.Place an original and press the start key to make a test copy.Change the setting value using the zoom +/- keys. For copy example 1, increase the value. For copy example 2, decrease the value. <div><div> Original</div><div> Copy example</div><div> Copy example 2</div></div> <p>Figure 1-3-7</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Adjustment: auxiliary scanning direction</p> <ol style="list-style-type: none">Light exp. 2 using the exposure adjustment key.Press the interrupt key.Place an original and press the start key to make a test copy.Change the setting value using the zoom +/- keys. For copy example 1, increase the value. For copy example 2, decrease the value. <div><div> Original</div><div> Copy example 1</div><div> Copy example 2</div></div> <p>Figure 1-3-8</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	Scanner magnification in the main scanning direction	-25 to 25	0	Exp. 2	Scanner magnification in the auxiliary scanning direction	-25 to 25	-10
Exposure indicator	Description	Setting range	Initial setting										
Exp. 1	Scanner magnification in the main scanning direction	-25 to 25	0										
Exp. 2	Scanner magnification in the auxiliary scanning direction	-25 to 25	-10										

Maintenance item No.	Description								
U066	<p>Adjusting the scanner leading edge registration</p> <p>Description Adjusts the scanner leading edge registration of the original scanning.</p> <p>Purpose Make the adjustment if there is a regular error between the leading edges of the copy image and original.</p> <p>Adjustment</p> <p>1. Press the start key.</p> <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Scanner leading edge registration</td><td>-32 to 20</td><td>0</td><td>0.17 mm</td></tr></table> <p>2. Press the interrupt key.</p> <p>3. Place an original and press the start key to make a test copy.</p> <p>4. Change the setting value using the zoom +/- keys. For copy example 1, decrease the value. For copy example 2, increase the value.</p> <div><p>Scanner leading edge registration</p></div> <p style="text-align: center;">Original Copy example 1 Copy example 2</p> <p style="text-align: center;">Figure 1-3-9</p> <p>5. Press the start key. The value is set.</p> <p>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</p> <div><div>U066</div>→<div>U403 (P.1-3-51)</div>→<div>U071 (P.1-3-24)</div>→<div>U404 (P.1-3-52)</div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Change in value per step	Scanner leading edge registration	-32 to 20	0	0.17 mm
Description	Setting range	Initial setting	Change in value per step						
Scanner leading edge registration	-32 to 20	0	0.17 mm						

Maintenance item No.	Description								
U067	<div><div>Adjusting the scanner center line</div><div><div>Description</div><div>Adjusts the scanner center line of the original scanning.</div><div><div>Purpose</div><div>Make the adjustment if there is a regular error between the center lines of the copy image and original.</div></div><div><div>CAadjustment</div><div><div>1. Press the start key.</div><table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Scanner center line</td><td>-66 to 66</td><td>-10</td><td>0.17 mm</td></tr></table></div><div><div>2. Press the interrupt key.</div><div>3. Place an original and press the start key to make a test copy.</div><div>4. Change the setting value using the zoom +/- keys.</div><div>For copy example 1, increase the value. For copy example 2, decrease the value.</div><div><div><div>Scanner center line</div><div><div><div><div></div></div><div></div><div></div></div><div><div>Original</div><div>Copy example 1</div><div>Copy example 2</div></div></div></div><div><div>Figure 1-3-10</div><div><div>5. Press the start key. The value is set.</div><div><div>Caution</div><div>Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</div><div><div><div>U067</div><div>U403 (P.1-3-51)</div><div>U072 (P.1-3-25)</div><div>U404 (P.1-3-52)</div></div></div><div><div>Completion</div><div>Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</div></div></div></div></div></div></div></div></div></div>	Description	Setting range	Initial setting	Change in value per step	Scanner center line	-66 to 66	-10	0.17 mm
Description	Setting range	Initial setting	Change in value per step						
Scanner center line	-66 to 66	-10	0.17 mm						

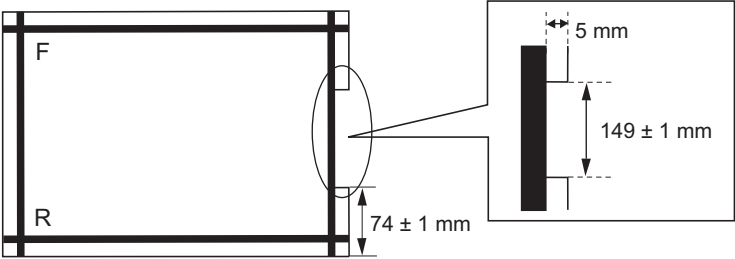
Maintenance item No.	Description								
U068	<p>Adjusting the scanning position for originals from the DP</p> <p>Description Adjusts the position for scanning originals from the DP.</p> <p>Purpose Used when the image fogging occurs because the scanning position is not proper when the DP is used. Run U071 to adjust the timing of DP leading edge when the scanning position is changed.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Scanning position</td><td>-17 to 17</td><td>0</td><td>0.17 mm</td></tr></table> <p>Increasing the value moves the image backward, and decreasing it moves the image forward.</p> <p>Supplement While this maintenance item is being executed, copying from an original is available in interrupt copying mode (which is activated by pressing the interrupt key).</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Change in value per step	Scanning position	-17 to 17	0	0.17 mm
Description	Setting range	Initial setting	Change in value per step						
Scanning position	-17 to 17	0	0.17 mm						

Maintenance item No.	Description															
U070	<div><div>Adjusting the DP magnification</div><div><div>Description</div><div>Adjusts the DP original scanning speed.</div><div><div>Purpose</div><div>Make the adjustment if the magnification is incorrect in the auxiliary scanning direction when the optional DP is used.</div></div><div><div>Adjustment</div><div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1</td><td>Magnification in the auxiliary scanning direction (first page)</td><td>-25 to 25</td><td>0</td><td>0.2 mm</td></tr><tr><td>Exp. 2</td><td>Magnification in the auxiliary scanning direction (second page)</td><td>-25 to 25</td><td>0</td><td>0.2 mm</td></tr></table><div><div><div>3. Press the interrupt key.</div><div>4. Place an original on the DP and press the start key to make a test copy.</div><div>5. Change the setting value using the zoom +/- keys.</div><div><div>For copy example 1, increase the value.</div><div>For copy example 2, decrease the value.</div></div></div><div><div><div><div><div></div><div>Original</div></div><div><div></div><div>Copy example 1</div></div><div><div></div><div>Copy example 2</div></div></div></div><div><div>Figure 1-3-11</div><div><div>6. Press the start key. The value is set.</div></div></div><div><div><div>Caution</div><div>Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</div></div><div><div><div>U070</div><div>→</div><div><div>U071</div><div>(P.1-3-24)</div></div><div>→</div><div><div>U404</div><div>(P.1-3-52)</div></div></div></div><div><div><div>Completion</div><div>Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</div></div></div></div></div></div></div></div></div></div>	Display	Description	Setting range	Initial setting	Change in value per step	Exp. 1	Magnification in the auxiliary scanning direction (first page)	-25 to 25	0	0.2 mm	Exp. 2	Magnification in the auxiliary scanning direction (second page)	-25 to 25	0	0.2 mm
Display	Description	Setting range	Initial setting	Change in value per step												
Exp. 1	Magnification in the auxiliary scanning direction (first page)	-25 to 25	0	0.2 mm												
Exp. 2	Magnification in the auxiliary scanning direction (second page)	-25 to 25	0	0.2 mm												

Maintenance item No.	Description																									
U071	<p>Adjusting the DP scanning timing</p> <p>Description Adjusts the DP original scanning timing.</p> <p>Purpose Make the adjustment if there is a regular error between the leading or trailing edges of the original and the copy image when the optional DP is used.</p> <p>Method</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1</td><td>DP leading edge registration (first side)</td><td>-32 to 32</td><td>0</td><td>0.2 mm</td></tr><tr><td>Exp. 2</td><td>DP trailing edge registration (first side)</td><td>-42 to 32</td><td>0</td><td>0.2 mm</td></tr><tr><td>Exp. 3</td><td>DP leading edge registration (second side)</td><td>-32 to 32</td><td>0</td><td>0.2 mm</td></tr><tr><td>Exp. 4</td><td>DP trailing edge registration (second side)</td><td>-42 to 32</td><td>0</td><td>0.2 mm</td></tr></table><div><div><div>3. Press the interrupt key.</div><div>4. Place an original on the DP and press the start key to make a test copy.</div><div>5. Change the setting value using the zoom +/- keys. For copy example 1, decrease the value of exp.1. For copy example 2, increase the value of exp.1.</div></div><div><div><div><div></div><div>Original</div></div><div><div></div><div>Copy example 1</div></div><div><div></div><div>Copy example 2</div></div></div></div><p>6. Press the start key. The value is set.</p></div></div>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1	DP leading edge registration (first side)	-32 to 32	0	0.2 mm	Exp. 2	DP trailing edge registration (first side)	-42 to 32	0	0.2 mm	Exp. 3	DP leading edge registration (second side)	-32 to 32	0	0.2 mm	Exp. 4	DP trailing edge registration (second side)	-42 to 32	0	0.2 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step																						
Exp. 1	DP leading edge registration (first side)	-32 to 32	0	0.2 mm																						
Exp. 2	DP trailing edge registration (first side)	-42 to 32	0	0.2 mm																						
Exp. 3	DP leading edge registration (second side)	-32 to 32	0	0.2 mm																						
Exp. 4	DP trailing edge registration (second side)	-42 to 32	0	0.2 mm																						
<p>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</p> <div><div>U071</div><div></div><div>U404 (P.1-3-52)</div></div> <p>Completion Press the stop/clear key while a selection item is displayed. The screen for selecting a maintenance item No. is displayed.</p>																										

Maintenance item No.	Description															
U072	<div><div>Adjusting the DP center line</div><div><div>Description</div><div>Adjusts the scanning start position for the DP original.</div><div><div>Purpose</div><div>Make the adjustment if there is a regular error between the centers of the original and the copy image when the optional DP is used.</div></div><div><div>Adjustment</div><div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1</td><td>DP center line (first side)</td><td>-6.6 to 6.6</td><td>0</td><td>0.15 mm</td></tr><tr><td>Exp. 2</td><td>DP center line (second side)</td><td>-3.0 to 3.0</td><td>0</td><td>0.15 mm</td></tr></table><div><div><div>3. Press the interrupt key.</div><div>4. Place an original on the DP and press the start key to make a test copy.</div><div>5. Change the setting value using the zoom +/- keys.</div><div><div>For copy example 1, increase the value.</div><div>For copy example 2, decrease the value.</div></div></div><div><div><div><div><div></div><div></div></div><div>Original</div></div><div><div><div></div><div></div></div><div>Copy example 1</div></div><div><div><div></div><div></div></div><div>Copy example 2</div></div></div></div><div><div>Figure 1-3-13</div><div><div>6. Press the start key. The value is set.</div><div><div><div>Caution</div><div>Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</div></div><div><div><div>U072</div><div>→</div><div>U404 (P.1-3-52)</div></div><div><div>Completion</div><div>Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</div></div></div></div></div></div></div></div></div></div></div>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1	DP center line (first side)	-6.6 to 6.6	0	0.15 mm	Exp. 2	DP center line (second side)	-3.0 to 3.0	0	0.15 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step												
Exp. 1	DP center line (first side)	-6.6 to 6.6	0	0.15 mm												
Exp. 2	DP center line (second side)	-3.0 to 3.0	0	0.15 mm												

Maintenance item No.	Description																																												
U073	<p>Checking scanner operation</p> <p>Description Simulates the scanner operation under arbitrary conditions.</p> <p>Purpose To check scanner operation.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item to be changed using the exposure adjustment keys.3. Change the setting using the zoom +/- keys. <table><tr><th>Exposure indicator</th><th>Operating conditions</th><th>Setting range</th></tr><tr><td>Exp. 1</td><td>Magnification</td><td>25 to 400%</td></tr><tr><td>Exp. 2</td><td>Paper size</td><td>See below.</td></tr><tr><td>Exp. 3</td><td>On and off of the exposure lamp</td><td>on or off</td></tr></table> <p>Paper size for each setting</p> <table><tr><th>Setting</th><th>Paper size</th><th>Setting</th><th>Paper size</th></tr><tr><td>8</td><td>A4</td><td>42</td><td>A5R</td></tr><tr><td>9</td><td>B5</td><td>47</td><td>Folio</td></tr><tr><td>24</td><td>11" x 8 1/2"</td><td>52</td><td>11" x 17"</td></tr><tr><td>36</td><td>A3</td><td>53</td><td>11" x 15"</td></tr><tr><td>39</td><td>B4</td><td>55</td><td>8 1/2" x 14"</td></tr><tr><td>40</td><td>A4R</td><td>56</td><td>8 1/2" x 11"</td></tr><tr><td>41</td><td>B5R</td><td>58</td><td>5 1/2" x 8 1/2"</td></tr></table> <ol style="list-style-type: none">4. Press the start key. The setting is set.5. Press the interrupt key.6. Press the start key. Scanning starts under the selected conditions.7. To stop operation, press the stop/clear key. <p>Completion Press the stop/clear key when scanning stops. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Operating conditions	Setting range	Exp. 1	Magnification	25 to 400%	Exp. 2	Paper size	See below.	Exp. 3	On and off of the exposure lamp	on or off	Setting	Paper size	Setting	Paper size	8	A4	42	A5R	9	B5	47	Folio	24	11" x 8 1/2"	52	11" x 17"	36	A3	53	11" x 15"	39	B4	55	8 1/2" x 14"	40	A4R	56	8 1/2" x 11"	41	B5R	58	5 1/2" x 8 1/2"
Exposure indicator	Operating conditions	Setting range																																											
Exp. 1	Magnification	25 to 400%																																											
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Exp. 3	On and off of the exposure lamp	on or off																																											
Setting	Paper size	Setting	Paper size																																										
8	A4	42	A5R																																										
9	B5	47	Folio																																										
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39	B4	55	8 1/2" x 14"																																										
40	A4R	56	8 1/2" x 11"																																										
41	B5R	58	5 1/2" x 8 1/2"																																										
U074	<p>Adjusting the DP input light luminosity</p> <p>Description Adjusts the luminosity of the exposure lamp for scanning originals from the DP.</p> <p>Purpose Used if the exposure amount differs significantly between when scanning an original on the platen and when scanning an original from the DP.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>DP input light luminosity</td><td>0 to 8</td><td>1</td></tr></table> <p>Increasing the setting makes the luminosity higher, and decreasing it makes the luminosity lower.</p> <ol style="list-style-type: none">3. Press the start key. The value is set. <p>Supplement While this maintenance item is being executed, copying from an original is available in interrupt copying mode (which is activated by pressing the interrupt key).</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	DP input light luminosity	0 to 8	1																																						
Description	Setting range	Initial setting																																											
DP input light luminosity	0 to 8	1																																											

Maintenance item No.	Description										
U076	<div><div><div><div>Adjusting the DP automatically</div><div><div>Description</div><div>Uses a specified original and automatically adjusts the following items in the DP scanning section.</div><div>Adjusting the DP magnification (U070)</div><div>Adjusting the DP scanning timing (U071)</div><div>Adjusting the DP center line (U072)</div><div>When you run this maintenance mode, the preset values of U070, U071 and U072 will also be updated.</div></div><div><div>Purpose</div><div>To perform automatic adjustment of various items in the DP scanning section.</div></div><div><div>Method</div><div><div>1. Set a specified original (P/N: 302AC68243) in the DP.</div><div>Cut the trailing edge of the original.</div></div></div></div><div><div></div><div><div>Figure 1-3-14</div></div></div><div><div><div>2. Press the start key. "on" appears.</div><div>3. Press the start key. Auto adjustment starts. When adjustment is complete, "Gd" appears.</div><div>4. Display each setting value after adjustment using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th></tr><tr><td>Exp. 1</td><td>Execution result</td></tr><tr><td>Exp. 2</td><td>DP scanning timing</td></tr><tr><td>Exp. 3</td><td>DP center line</td></tr><tr><td>Exp. 4</td><td>DP magnification</td></tr></table><div><div>If a problem occurs during auto adjustment, "nG" is displayed and operation stops. Determine the details of the problem and either repeat the procedure from the beginning, or adjust the remaining items manually by running the corresponding maintenance items.</div><div><div>Completion</div><div>Press the stop/clear key after auto adjustment is complete. The screen for selecting a maintenance item No. is displayed.</div><div>If the stop/clear key is pressed during auto adjustment, adjustment stops and no settings are changed.</div></div></div></div></div></div>	Exposure indicator	Description	Exp. 1	Execution result	Exp. 2	DP scanning timing	Exp. 3	DP center line	Exp. 4	DP magnification
Exposure indicator	Description										
Exp. 1	Execution result										
Exp. 2	DP scanning timing										
Exp. 3	DP center line										
Exp. 4	DP magnification										

Maintenance item No.	Description																		
U087	<p>Setting DP reading position modification operation</p> <p>Description The presence or absence of dust is determined by comparing the scan data of the original trailing edge and that taken after the original is conveyed past the DP original scanning position. If dust is identified, the DP original scanning position is adjusted for the following originals.</p> <p>Purpose When using DP, to solve the problem when black lines occurs due to the dust with respect to original reading position.</p> <p>Setting</p> <ol style="list-style-type: none">Press the start key.Select the item to be set using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th></tr><tr><td>Exp. 1</td><td>Setting the mode on/off</td></tr><tr><td>Exp. 2</td><td>Setting the reference data for identifying dust</td></tr></table> <p>Setting the mode on/off</p> <ol style="list-style-type: none">Select "on" or "oFF" using the zoom +/- keys. <table><tr><th>Display</th><th>Description</th></tr><tr><td>on</td><td>DP scanning position adjust mode on</td></tr><tr><td>oFF</td><td>DP scanning position adjust mode off</td></tr></table> <p>Initial setting: on</p> <ol style="list-style-type: none">Press the start key. The setting is set. <p>Setting the reference data for identifying dust Available only when the mode is turned on.</p> <ol style="list-style-type: none">Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Minimum density to be regarded as dust</td><td>10 to 95</td><td>35</td></tr></table> <p>Example The figure indicates the density in 256 levels of gray (0: white, 255: black). When the setting is 35, data of the level of 35 or higher is regarded as dust and data of lower level is regarded as the background (scan data taken when there is no original).</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Exp. 1	Setting the mode on/off	Exp. 2	Setting the reference data for identifying dust	Display	Description	on	DP scanning position adjust mode on	oFF	DP scanning position adjust mode off	Description	Setting range	Initial setting	Minimum density to be regarded as dust	10 to 95	35
Exposure indicator	Description																		
Exp. 1	Setting the mode on/off																		
Exp. 2	Setting the reference data for identifying dust																		
Display	Description																		
on	DP scanning position adjust mode on																		
oFF	DP scanning position adjust mode off																		
Description	Setting range	Initial setting																	
Minimum density to be regarded as dust	10 to 95	35																	

Maintenance item No.	Description																									
U088	<p>Setting the input filter (moire reduction mode)</p> <p>Description Turns moire reduction mode on and off by switching the input filter on and off.</p> <p>Purpose Used to prevent regular density unevenness (moiré) on halftone image areas of the copy image in text mode and text and photo mode. Such moire is more likely to appear when an enlargement or reduction copy is made in text mode from an original containing large halftone image areas.</p> <p>Method Press the start key.</p> <p>Setting</p> <ol style="list-style-type: none">Press the start key.Select "on" or "oFF" using the zoom +/- keys. <table><tr><th>Display</th><th>Description</th></tr><tr><td>on</td><td>Moiré reduction mode</td></tr><tr><td>oFF</td><td>Normal copy mode</td></tr></table> <p>Initial setting: oFF If moire on the copy image is significant, change the setting to "on". Note that when the moire reduction mode is turned on, the resolution may be slightly reduced.</p> <ol style="list-style-type: none">Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	on	Moiré reduction mode	oFF	Normal copy mode																			
Display	Description																									
on	Moiré reduction mode																									
oFF	Normal copy mode																									
U089	<p>Outputting a MIP-PG pattern</p> <p>Description Selects and outputs a MIP-PG pattern created in the machine.</p> <p>Purpose When performing respective image printing adjustments, used to check the machine status apart from that of the scanner with a non-scanned output MIP-PG pattern.</p> <p>Method</p> <ol style="list-style-type: none">Press the start key.Select the MIP-PG pattern to be output using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Display</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>G-S</td><td>Gray scale</td><td>-</td><td>-</td></tr><tr><td>Exp. 2</td><td>0 (setting value)</td><td>Mono level</td><td>0 to 255</td><td>0</td></tr><tr><td>Exp. 3</td><td>FFL</td><td>256 level</td><td>-</td><td>-</td></tr><tr><td>Exp. 4</td><td>1-d</td><td>1-dot level</td><td>-</td><td>-</td></tr></table> <ol style="list-style-type: none">Press the interrupt key.Press the start key. A MIP-PG pattern is output. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Display	Description	Setting range	Initial setting	Exp. 1	G-S	Gray scale	-	-	Exp. 2	0 (setting value)	Mono level	0 to 255	0	Exp. 3	FFL	256 level	-	-	Exp. 4	1-d	1-dot level	-	-
Exposure indicator	Display	Description	Setting range	Initial setting																						
Exp. 1	G-S	Gray scale	-	-																						
Exp. 2	0 (setting value)	Mono level	0 to 255	0																						
Exp. 3	FFL	256 level	-	-																						
Exp. 4	1-d	1-dot level	-	-																						

Maintenance item No.	Description												
U092	<p>Adjusting the scanner automatically</p> <p>Description Makes auto scanner adjustments in the order below using the specified original. Adjusting the scanner center line (U067) Adjusting the scanner leading edge registration (U066) Adjusting scanner magnification in the auxiliary direction (U065) When this maintenance item is performed, the settings in U065, U066 and U067 are also changed.</p> <p>Purpose Used to make respective auto adjustments for the scanner.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Place the specified original (P/N: 302FZ56990) on the contact glass. 2. Press the start key. "on" appears. 3. Press the start key. Auto adjustment starts. When adjustment is complete, "Gd" appears. 4. Display each setting value after adjustment using the exposure adjustment keys. <table border="1" data-bbox="335 680 1398 929"> <thead> <tr> <th>Exposure indicator</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Exp. 1</td><td>Execution result</td></tr> <tr> <td>Exp. 2</td><td>Scanner magnification in the auxiliary scanning direction</td></tr> <tr> <td>Exp. 3</td><td>Scanner leading edge registration</td></tr> <tr> <td>Exp. 4</td><td>Scanner magnification in the main scanning direction</td></tr> <tr> <td>Exp. 5</td><td>Scanner center line</td></tr> </tbody> </table> <p>If a problem occurs during auto adjustment, "nG" is displayed and operation stops. Determine the details of the problem and either repeat the procedure from the beginning, or adjust the remaining items manually by running the corresponding maintenance items.</p> <p>Completion Press the stop/clear key after auto adjustment is complete. The screen for selecting a maintenance item No. is displayed. If the stop/clear key is pressed during auto adjustment, adjustment stops and no settings are changed.</p>	Exposure indicator	Description	Exp. 1	Execution result	Exp. 2	Scanner magnification in the auxiliary scanning direction	Exp. 3	Scanner leading edge registration	Exp. 4	Scanner magnification in the main scanning direction	Exp. 5	Scanner center line
Exposure indicator	Description												
Exp. 1	Execution result												
Exp. 2	Scanner magnification in the auxiliary scanning direction												
Exp. 3	Scanner leading edge registration												
Exp. 4	Scanner magnification in the main scanning direction												
Exp. 5	Scanner center line												

Maintenance item No.	Description																				
U093	<p>Setting the exposure density gradient</p> <p>Description</p> <p>Changes the exposure density gradient in the manual density mode, depending on respective image quality modes.</p> <p>Purpose</p> <p>To set how the image density is altered by a change of one step in the manual density adjustment for respective image quality modes. Also used to make copy images darker or lighter.</p> <p>Method</p> <ol style="list-style-type: none">Press the start key.Select the image mode to be adjusted using the image mode selection key. <table><tr><th>Image mode LEDs</th><th>Description</th></tr><tr><td><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></td><td>Density in text mode</td></tr><tr><td><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input type="radio"/> Text</div></td><td>Density in text and photo mode</td></tr><tr><td><div><input checked="" type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input type="radio"/> Text</div></td><td>Density in photo mode</td></tr></table> <p><input type="radio"/> : Off, <input checked="" type="radio"/> : On</p> <p>Setting</p> <ol style="list-style-type: none">Select the item to be set using the exposure adjustment keys.Adjust the setting using the zoom +/- keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>Change in density when manual density is set dark</td><td>0 to 3</td><td>0</td></tr><tr><td>Exp. 2</td><td>Change in density when manual density is set light</td><td>0 to 3</td><td>0</td></tr></table> <p>Increasing the setting makes the change in density larger, and decreasing it makes the change smaller.</p> <div><p>Figure 1-3-15</p></div> <ol style="list-style-type: none">Press the start key. The value is set. <p>Supplement</p> <p>While this maintenance item is being executed, copying from an original is available in interrupt copying mode (which is activated by pressing the interrupt key).</p> <p>Completion</p> <p>Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LEDs	Description	<div><input type="radio"/> Text & Photo</div> <div><input type="radio"/> Photo</div> <div><input checked="" type="radio"/> Text</div>	Density in text mode	<div><input type="radio"/> Text & Photo</div> <div><input checked="" type="radio"/> Photo</div> <div><input type="radio"/> Text</div>	Density in text and photo mode	<div><input checked="" type="radio"/> Text & Photo</div> <div><input type="radio"/> Photo</div> <div><input type="radio"/> Text</div>	Density in photo mode	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	Change in density when manual density is set dark	0 to 3	0	Exp. 2	Change in density when manual density is set light	0 to 3	0
Image mode LEDs	Description																				
<div><input type="radio"/> Text & Photo</div> <div><input type="radio"/> Photo</div> <div><input checked="" type="radio"/> Text</div>	Density in text mode																				
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Exposure indicator	Description	Setting range	Initial setting																		
Exp. 1	Change in density when manual density is set dark	0 to 3	0																		
Exp. 2	Change in density when manual density is set light	0 to 3	0																		

Maintenance item No.	Description																																			
U099	<p>Adjusting original size detection</p> <p>Description Checks the operation of the original size detection sensor and sets the sensing threshold value.</p> <p>Purpose To adjust the sensitiveness of the sensor and size judgement time if the original size detection sensor malfunctions frequently due to incident light or the like.</p> <p>Method</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys</div><div>3. Press the start key. The machine enters the execution mode.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>dA</td><td>Displaying detection sensor transmission data</td></tr><tr><td>LE</td><td>Setting detection sensor threshold value Setting original size judgment time</td></tr></table><p>Method to display the data for the sensor</p><div><div><div>1. Place an original on the contact glass and turn the original detection switch on. The exposure lamp turns on and the width of the original is detected. The scanner data taken at the nine points from (1) at the machine rear to (9) at the machine front is displayed. The data is displayed within the range of 000 to 255, 000 indicating white (original present) and 255 indicating black (no original).</div><div>2. Change the point to display the detection data using the exposure adjustment keys. For the correspondence between the detection point and the exposure indicators, see Figure 1-3-16.</div></div><div><table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr></table></div><div><table><tr><th>Point</th><th>Exposure indicator</th></tr><tr><td>1</td><td>exp. 1 (lit)</td></tr><tr><td>2</td><td>exp. 2 (lit)</td></tr><tr><td>3</td><td>exp. 3 (lit)</td></tr><tr><td>4</td><td>exp. 4 (lit)</td></tr><tr><td>5</td><td>exp. 5 (lit)</td></tr><tr><td>6</td><td>exp. 1 (flashing)</td></tr><tr><td>7</td><td>exp. 2 (flashing)</td></tr><tr><td>8</td><td>exp. 3 (flashing)</td></tr><tr><td>9</td><td>exp. 4 (flashing)</td></tr></table></div><p style="text-align: center;">Figure 1-3-16</p><div><div><div>3. Press the stop/clear key. The selected item appears.</div></div></div></div></div>	Display	Description	dA	Displaying detection sensor transmission data	LE	Setting detection sensor threshold value Setting original size judgment time	1	2	3	4	5	6	7	8	9	Point	Exposure indicator	1	exp. 1 (lit)	2	exp. 2 (lit)	3	exp. 3 (lit)	4	exp. 4 (lit)	5	exp. 5 (lit)	6	exp. 1 (flashing)	7	exp. 2 (flashing)	8	exp. 3 (flashing)	9	exp. 4 (flashing)
Display	Description																																			
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LE	Setting detection sensor threshold value Setting original size judgment time																																			
1	2	3																																		
4	5	6																																		
7	8	9																																		
Point	Exposure indicator																																			
1	exp. 1 (lit)																																			
2	exp. 2 (lit)																																			
3	exp. 3 (lit)																																			
4	exp. 4 (lit)																																			
5	exp. 5 (lit)																																			
6	exp. 1 (flashing)																																			
7	exp. 2 (flashing)																																			
8	exp. 3 (flashing)																																			
9	exp. 4 (flashing)																																			

Maintenance item No.	Description																								
U099 (cont.)	Method to set or check the original size detection threshold																								
	1. Place an original on the contact glass and turn the original detection switch on. The original size detection starts and detection data is displayed.																								
	2. Change the detection item using the exposure adjustment keys.																								
	<table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>Detection sensor threshold value</td><td>0 to 255</td><td>170</td></tr><tr><td>Exp. 2</td><td>Original size judgment time</td><td>0 to 100 ms</td><td>30</td></tr><tr><td>Exp. 3</td><td>Threshold value in the main scan direction for A4R detection</td><td>220/240 mm</td><td>240</td></tr><tr><td>Exp. 4</td><td>Original size detection position display (mm)</td><td>0 to 350 mm</td><td>-</td></tr><tr><td>Exp. 5</td><td>Detected original size display</td><td>0 to 63*</td><td>-</td></tr></table>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	Detection sensor threshold value	0 to 255	170	Exp. 2	Original size judgment time	0 to 100 ms	30	Exp. 3	Threshold value in the main scan direction for A4R detection	220/240 mm	240	Exp. 4	Original size detection position display (mm)	0 to 350 mm	-	Exp. 5	Detected original size display	0 to 63*	-
	Exposure indicator	Description	Setting range	Initial setting																					
	Exp. 1	Detection sensor threshold value	0 to 255	170																					
	Exp. 2	Original size judgment time	0 to 100 ms	30																					
	Exp. 3	Threshold value in the main scan direction for A4R detection	220/240 mm	240																					
	Exp. 4	Original size detection position display (mm)	0 to 350 mm	-																					
	Exp. 5	Detected original size display	0 to 63*	-																					
3. To change the original size detection threshold, light exp. 1, 2 or 3 and change the setting using the zoom +/- keys.																									
4. Press the start key. The value is set.																									
5. Press the stop/clear key. The selected item appears.																									
Completion																									
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.																									

Maintenance item No.	Description																																				
U100	<p>Setting the main high voltage</p> <p>Description Changes the surface potential by changing the grid control voltage. Also performs main charging. Also changes the setting of main charging copy quantity correction.</p> <p>Purpose To set the surface potential or check main charging. Also used when reentering data after initializing the set data.</p> <p>Start</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th></tr><tr><td>Exp. 1 (lit)</td><td>Changing the grid control voltage</td></tr><tr><td>Exp. 2 (lit)</td><td>Turning the main charger on</td></tr><tr><td>Exp. 3 (lit)</td><td>Turning the main charger on and the laser scanner unit on and off</td></tr><tr><td>Exp. 4 (lit)</td><td>Main charging copy quantity correction, copy interval</td></tr><tr><td>Exp. 5 (lit)</td><td>Main charging copy quantity correction, copy quantity</td></tr><tr><td>Exp. 1 (flashing)</td><td>Main charging copy quantity correction, correction amount</td></tr></table> <p>Method for main charger output</p> <ol style="list-style-type: none">1. Press the start key. The selected operation starts.2. To stop operation, press the stop/clear key. <p>Setting the grid control voltage</p> <ol style="list-style-type: none">1. Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Grid control voltage</td><td>0 to 255</td><td>107</td></tr></table> <p>Increasing the setting makes the surface potential higher, and decreasing it makes the potential lower.</p> <ol style="list-style-type: none">2. Press the start key. The value is set. <p>Setting the main charging copy quantity correction</p> <ol style="list-style-type: none">1. Change the setting using the zoom +/- keys. <table><tr><th>Display</th><th>Setting</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 4 (lit)</td><td>Copy interval</td><td>1 to 255 (minute)</td><td>60</td></tr><tr><td>Exp. 5 (lit)</td><td>Copy quantity</td><td>1 to 255 (10 sheets)</td><td>50</td></tr><tr><td>Exp. 1 (flashing)</td><td>Correction amount</td><td>0 to 50 (bit)</td><td>10</td></tr></table> <p>Copy interval: Sets the time interval from the previous copying. If the time from the previous copying exceeds this preset value, the copy quantity counter will be reset.</p> <p>Copy quantity: Sets the copy quantity from which copy quantity correction starts. When the copy quantity counter reaches this preset value, correction will start.</p> <p>Correction amount: Sets the correction amount for copy quantity correction.</p> <p>Set the values in the range from 5 to 120 minutes for copy interval, from 10 to 2,000 sheets for copy quantity, and from 5 to 50 bits for correction amount.</p> <ol style="list-style-type: none">2. Press the start key. The value is set. <p>Supplement</p> <p>While this maintenance item is being executed, copying from an original is available in interrupt copying mode (which is activated by pressing the interrupt key).</p> <p>Completion</p> <p>Press the stop/clear key when main charger output stops while a selection item is displayed. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Exp. 1 (lit)	Changing the grid control voltage	Exp. 2 (lit)	Turning the main charger on	Exp. 3 (lit)	Turning the main charger on and the laser scanner unit on and off	Exp. 4 (lit)	Main charging copy quantity correction, copy interval	Exp. 5 (lit)	Main charging copy quantity correction, copy quantity	Exp. 1 (flashing)	Main charging copy quantity correction, correction amount	Description	Setting range	Initial setting	Grid control voltage	0 to 255	107	Display	Setting	Setting range	Initial setting	Exp. 4 (lit)	Copy interval	1 to 255 (minute)	60	Exp. 5 (lit)	Copy quantity	1 to 255 (10 sheets)	50	Exp. 1 (flashing)	Correction amount	0 to 50 (bit)	10
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Exp. 1 (flashing)	Correction amount	0 to 50 (bit)	10																																		

Maintenance item No.	Description
U101	<p>Setting the other high voltages</p> <p>Description Changes the developing bias clock, the transfer and separation charging output timing.</p> <p>Purpose To check the developing bias clock, the transfer and separation charging output timing. Do not change the preset value.</p> <p>Method Press the start key.</p> <p>Setting</p> <div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> 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Maintenance item No.	Description															
U110	Checking the drum count															
	Description															
	Displays the drum counts for checking.															
	Purpose															
	To check the drum status.															
U110	Method															
	1. Press the start key.															
	2. Select the item using the exposure adjustment keys.															
	<table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr></table>				Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000
	Exposure indicator	Description	Setting range	Initial setting												
Exp. 1	First 3 digits	000 to 999	000													
Exp. 2	Last 3 digits	000 to 999	000													
Completion																
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.																
U130	Initial setting for the developing unit															
	Description															
	Replenishes toner to the developing unit to a certain level from the toner container that has been installed.															
	Purpose															
	To operate when installing the machine or replacing the developing unit.															
U130	Method															
	1. Press the start key. "on" appears.															
	2. Press the start key.															
	Installation of toner starts and "10" is indicated in the copy quantity display. Each time one minute elapses, the indicated value decrements. When the installation is complete, "Gd" will be displayed if the installation is successful or "nG" will be displayed if it has failed.															
	3. To stop the installation in the middle, press the stop/clear key.															
U130	Completion															
	Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.															

Maintenance item No.	Description																
U144	<p>Setting toner loading operation</p> <p>Description Sets toner loading operation after completion of copying.</p> <p>Purpose To set whether or not toner is loaded on the drum after low density copying. Normally no change is necessary from the initial setting.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select the item.</div><div>3. Change the setting using the zoom +/- keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>Toner loading operation</td><td>1 (ON) / 0(OFF)</td><td>0</td></tr><tr><td>Exp. 2</td><td>Number of pages set</td><td>1 to 50</td><td>5</td></tr><tr><td>Exp. 3</td><td>Printing ratio</td><td>10 to 40</td><td>30</td></tr></table><div><div>4. Press the start key. The value is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	Toner loading operation	1 (ON) / 0(OFF)	0	Exp. 2	Number of pages set	1 to 50	5	Exp. 3	Printing ratio	10 to 40	30
Exposure indicator	Description	Setting range	Initial setting														
Exp. 1	Toner loading operation	1 (ON) / 0(OFF)	0														
Exp. 2	Number of pages set	1 to 50	5														
Exp. 3	Printing ratio	10 to 40	30														
U150	<p>Checking sensors for toner</p> <p>Description Displays the on-off status of sensor related to toner.</p> <p>Purpose To check if the sensor operate correctly.</p> <p>Method</p> <div><div><div>1. Press the start key.</div><div>2. Turn sensor on and off manually to check the status.</div></div><div>When the on-status of a sensor is detected, that sensor is displayed in reverse.</div></div> <table><tr><th>Original size indicator</th><th>Sensor</th></tr><tr><td>A4/Letter-R</td><td>Toner container sensor (TCS)</td></tr></table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Original size indicator	Sensor	A4/Letter-R	Toner container sensor (TCS)												
Original size indicator	Sensor																
A4/Letter-R	Toner container sensor (TCS)																

Maintenance item No.	Description																
U157	<p>Checking/clearing the developing drive time</p> <p>Description Displays the developing drive time for checking, clearing or changing a figure.</p> <p>Purpose To check the developing drive time after replacing the developer unit.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 3</td><td>Clearing the drive time</td><td>-</td><td>-</td></tr></table> <p>Clearing</p> <ol style="list-style-type: none">1. Light exp. 3.2. Press the start key. The drive time is cleared. <p>Setting</p> <ol style="list-style-type: none">1. Change the drive time using the numeric or zoom +/- keys.2. Press the start key. The drive time is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000	Exp. 3	Clearing the drive time	-	-
Exposure indicator	Description	Setting range	Initial setting														
Exp. 1	First 3 digits	000 to 999	000														
Exp. 2	Last 3 digits	000 to 999	000														
Exp. 3	Clearing the drive time	-	-														
U158	<p>Checking the developing count</p> <p>Description Displays the developing count.</p> <p>Purpose To check the developing count.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr></table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000				
Exposure indicator	Description	Setting range	Initial setting														
Exp. 1	First 3 digits	000 to 999	000														
Exp. 2	Last 3 digits	000 to 999	000														

Maintenance item No.	Description																												
U161	<p>Setting the fuser control temperature</p> <p>Description Changes the fuser control temperature.</p> <p>Purpose Normally no change is necessary. However, can be used to prevent curling or creasing of paper, or solve a fuser problem on thick paper.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>1. Select the item to be set using the exposure adjustment keys.</div><div>2. Change the setting using the zoom +/- keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1 (lit)</td><td>Primary stabilization fuser temperature</td><td>120 to 185 (°C)</td><td>145</td></tr><tr><td>Exp. 2 (lit)</td><td>Secondary stabilization fuser temperature</td><td>120 to 185 (°C)</td><td>165</td></tr><tr><td>Exp. 3 (lit)</td><td>Copying operation temperature 1</td><td>160 to 220 (°C)</td><td>175</td></tr><tr><td>Exp. 4 (lit)</td><td>Copying operation temperature 2</td><td>160 to 220 (°C)</td><td>185</td></tr><tr><td>Exp. 5 (lit)</td><td>Number of sheets for fuser control</td><td>1 to 99</td><td>1</td></tr><tr><td>Exp. 1 (flashing)</td><td>Number of sheets for fuser control (thick paper)</td><td>1 to 99</td><td>2</td></tr></table><p>Copying operation temperature 1: Temperature in copying operation at the start of copying Copying operation temperature 2: Temperature in copying operation after the specified number of sheets for fuser control have passed Number of sheets for fuser control: The number of sheets to be counted for switching from copying operation temperature 1 to copying operation temperature 2 The temperatures are to be set such that Secondary stabilization ≥ Primary stabilization.</p><div><div>3. Press the start key. The value is set.</div></div><p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p></div>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1 (lit)	Primary stabilization fuser temperature	120 to 185 (°C)	145	Exp. 2 (lit)	Secondary stabilization fuser temperature	120 to 185 (°C)	165	Exp. 3 (lit)	Copying operation temperature 1	160 to 220 (°C)	175	Exp. 4 (lit)	Copying operation temperature 2	160 to 220 (°C)	185	Exp. 5 (lit)	Number of sheets for fuser control	1 to 99	1	Exp. 1 (flashing)	Number of sheets for fuser control (thick paper)	1 to 99	2
Exposure indicator	Description	Setting range	Initial setting																										
Exp. 1 (lit)	Primary stabilization fuser temperature	120 to 185 (°C)	145																										
Exp. 2 (lit)	Secondary stabilization fuser temperature	120 to 185 (°C)	165																										
Exp. 3 (lit)	Copying operation temperature 1	160 to 220 (°C)	175																										
Exp. 4 (lit)	Copying operation temperature 2	160 to 220 (°C)	185																										
Exp. 5 (lit)	Number of sheets for fuser control	1 to 99	1																										
Exp. 1 (flashing)	Number of sheets for fuser control (thick paper)	1 to 99	2																										
U162	<p>Stabilizing fuser forcibly</p> <p>Description Stops the stabilization fuser drive forcibly, regardless of fuser temperature.</p> <p>Purpose To forcibly stabilize the machine before the fuser section reaches stabilization temperature.</p> <p>Method</p> <div><div><div>1. Press the start key. "on" appears.</div><div>2. Press the start key. The forced stabilization mode is entered, and stabilization operation stops regardless of fuser temperature. The screen for selecting a maintenance item No. is Displayed.To exit the forced stabilization mode, turn the power off and on.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>																												

Maintenance item No.	Description															
U163	Resetting the fuser problem data Description Resets the detection of a service call code indicating a problem in the fuser section. Purpose To prevent accidents due to an abnormally high fuser temperature. Method 1. Press the start key. "CLE" appears. 2. Press the start key. The fuser problem data is initialized. Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.															
U167	Checking the fuser count Description Displays the fuser count. Purpose To check the fuser count. Method 1. Press the start key. 2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr></table> Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.				Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000
Exposure indicator	Description	Setting range	Initial setting													
Exp. 1	First 3 digits	000 to 999	000													
Exp. 2	Last 3 digits	000 to 999	000													

Maintenance item No.	Description								
U198	<p>Setting the fuser phase control</p> <p>Description Sets the use of fuser phase control to reduce electrical noise generated by the machine.</p> <p>Purpose Normally no change is necessary. If electrical noise generated by the machine causes flickering of the lights around the machine, select fuser phase control to reduces the noise.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select either "on" or "oFF" using the zoom +/- keys. <table border="1" data-bbox="335 533 1398 658"> <thead> <tr> <th>Display</th><th>Description</th></tr> </thead> <tbody> <tr> <td>on</td><td>Fuser phase control present</td></tr> <tr> <td>oFF</td><td>Fuser phase control absent</td></tr> </tbody> </table> <p>Initial setting: oFF</p> <ol style="list-style-type: none"> 3. Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	on	Fuser phase control present	oFF	Fuser phase control absent		
Display	Description								
on	Fuser phase control present								
oFF	Fuser phase control absent								
U199	<p>Checking the fuser temperature</p> <p>Description Displays the fuser temperature, the ambient temperature and the absolute humidity.</p> <p>Purpose To check the fuser temperature, the ambient temperature and the absolute humidity.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Display each temperature using the exposure adjustment keys. <table border="1" data-bbox="335 1037 1398 1205"> <thead> <tr> <th>Exposure indicator</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Exp. 1</td><td>Fuser temperature (°C)</td></tr> <tr> <td>Exp. 2</td><td>Ambient temperature (°C)</td></tr> <tr> <td>Exp. 3</td><td>Absolute humidity (%)</td></tr> </tbody> </table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Exp. 1	Fuser temperature (°C)	Exp. 2	Ambient temperature (°C)	Exp. 3	Absolute humidity (%)
Exposure indicator	Description								
Exp. 1	Fuser temperature (°C)								
Exp. 2	Ambient temperature (°C)								
Exp. 3	Absolute humidity (%)								
U200	<p>Turning all LEDs on</p> <p>Description Turns all the LEDs on the operation panel on.</p> <p>Purpose To check if all the LEDs on the operation panel light.</p> <p>Method Press the start key. All the LEDs on the operation panel light. Press the stop/clear key or wait for 10 s. The LEDs turns off, and the screen for selecting a maintenance item No. is displayed.</p>								

Maintenance item No.	Description															
U203	<p>Checking DP separately</p> <p>Description Simulates the original conveying operation separately in the DP.</p> <p>Purpose To check the DP operation.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Place an original on the DP if running this simulation with paper.3. Select the item to be operated using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Display</th><th>Motor</th></tr><tr><td>Exp. 1</td><td>d-P</td><td>With paper</td></tr><tr><td>Exp. 2</td><td>d-n</td><td>Without paper (continuous operation)</td></tr><tr><td>Exp. 3</td><td>dp2</td><td>With paper (duplex mode)</td></tr><tr><td>Exp. 4</td><td>dn2</td><td>Without paper (duplex mode)</td></tr></table> <ol style="list-style-type: none">4. Press the start key. The operation starts.5. To stop continuous operation, press the stop/clear key. <p>Completion Press the stop/clear key when the operation stops. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Display	Motor	Exp. 1	d-P	With paper	Exp. 2	d-n	Without paper (continuous operation)	Exp. 3	dp2	With paper (duplex mode)	Exp. 4	dn2	Without paper (duplex mode)
Exposure indicator	Display	Motor														
Exp. 1	d-P	With paper														
Exp. 2	d-n	Without paper (continuous operation)														
Exp. 3	dp2	With paper (duplex mode)														
Exp. 4	dn2	Without paper (duplex mode)														
U204	<p>Setting the presence or absence of a key card or key counter</p> <p>Description Sets the presence or absence of the optional key card or key counter.</p> <p>Purpose To run this maintenance item if a key card or key counter is installed.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the zoom +/- keys. <table><tr><th>Display</th><th>Description</th></tr><tr><td>oFF</td><td>None</td></tr><tr><td>Crd</td><td>The key card is installed</td></tr><tr><td>Cnt</td><td>The key counter is installed</td></tr></table> <p>Initial setting: oFF</p> <ol style="list-style-type: none">3. Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	oFF	None	Crd	The key card is installed	Cnt	The key counter is installed							
Display	Description															
oFF	None															
Crd	The key card is installed															
Cnt	The key counter is installed															
U207	<p>Checking the operation panel keys</p> <p>Description Checks operation of the operation panel keys.</p> <p>Purpose To check operation of all the keys and LEDs on the operation panel.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. "1" appears on the copy quantity display and the leftmost LED on the operation panel lights.3. As the keys on the operation panel are pressed in order from the left to right, the figure shown on the copy quantity display increases in increments of 1. If there is an LED corresponding to the key pressed, the LED will light.4. When all the keys on the operation panel have been pressed, all the LEDs light for up to 10 seconds.5. When the LEDs go off, press the start key. All the LEDs light for 10 seconds again. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>															

Maintenance item No.	Description																		
U243	<p>Checking the operation of the DP motors</p> <p>Description Turns the motors or solenoids in the optional DP on.</p> <p>Purpose To check the operation of the DP motors or solenoids.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the motor or solenoid to be operated using the exposure adjustment keys.3. Press the start key. The operation starts. <table><tr><th>Exposure indicator</th><th>Display</th><th>Motor</th></tr><tr><td>Exp. 1</td><td>F-0</td><td>Original feed motor (OFM)</td></tr><tr><td>Exp. 2</td><td>C-0</td><td>Original conveying motor (OCM)</td></tr><tr><td>Exp. 3</td><td>r-0</td><td>Original switchback motor (OSBM)</td></tr><tr><td>Exp. 4</td><td>b-S</td><td>Switchback feedshift solenoid (SBFSSOL)</td></tr><tr><td>Exp. 5</td><td>P-S</td><td>Switchback pressure solenoid (SBPSOL)</td></tr></table> <ol style="list-style-type: none">4. To turn each motor off, press the stop/clear key. <p>Completion Press the stop/clear key when operation stops. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Display	Motor	Exp. 1	F-0	Original feed motor (OFM)	Exp. 2	C-0	Original conveying motor (OCM)	Exp. 3	r-0	Original switchback motor (OSBM)	Exp. 4	b-S	Switchback feedshift solenoid (SBFSSOL)	Exp. 5	P-S	Switchback pressure solenoid (SBPSOL)
Exposure indicator	Display	Motor																	
Exp. 1	F-0	Original feed motor (OFM)																	
Exp. 2	C-0	Original conveying motor (OCM)																	
Exp. 3	r-0	Original switchback motor (OSBM)																	
Exp. 4	b-S	Switchback feedshift solenoid (SBFSSOL)																	
Exp. 5	P-S	Switchback pressure solenoid (SBPSOL)																	
U244	<p>Checking the DP switches</p> <p>Description Displays the status of the respective switches in the DP.</p> <p>Purpose To check if respective switches in the DP operate correctly.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Turn each switch on and off manually to check the status. When the on-status of a switch is detected, the LEDs on the operation panel corresponding to the operated switch lights. <table><tr><th>LEDs</th><th>Switch</th></tr><tr><td>Auto Exp.</td><td>Original set switch (OSSW)</td></tr><tr><td>Text & Photo</td><td>DP timing switch (DPTSW)</td></tr><tr><td>Photo</td><td>Original detection switch (ODSW)</td></tr><tr><td>Text</td><td>DP original cover switch (DPOCSW)</td></tr><tr><td>EcoPrint</td><td>Original switchback switch (OSBSW)</td></tr><tr><td>Program</td><td>Original size length switch (OSLSW)</td></tr></table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	LEDs	Switch	Auto Exp.	Original set switch (OSSW)	Text & Photo	DP timing switch (DPTSW)	Photo	Original detection switch (ODSW)	Text	DP original cover switch (DPOCSW)	EcoPrint	Original switchback switch (OSBSW)	Program	Original size length switch (OSLSW)				
LEDs	Switch																		
Auto Exp.	Original set switch (OSSW)																		
Text & Photo	DP timing switch (DPTSW)																		
Photo	Original detection switch (ODSW)																		
Text	DP original cover switch (DPOCSW)																		
EcoPrint	Original switchback switch (OSBSW)																		
Program	Original size length switch (OSLSW)																		

Maintenance item No.	Description																
U245	<p>Checking messages</p> <p>Description Displays a list of messages on the operation panel.</p> <p>Purpose To check the messages to be displayed.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item to be displayed.3. Displays the message one by one using zoom +/- keys. When a message number is entered with the numeric keys and then the start key is pressed, the message corresponding the specified number is displayed. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>																
U250	<p>Setting the maintenance cycle</p> <p>Description Displays and changes the maintenance cycle.</p> <p>Purpose To check and change the maintenance cycle.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>150</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr></table> <ol style="list-style-type: none">3. Change the setting using the numeric or zoom +/- keys.4. Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	150	Exp. 2	Last 3 digits	000 to 999	000				
Exposure indicator	Description	Setting range	Initial setting														
Exp. 1	First 3 digits	000 to 999	150														
Exp. 2	Last 3 digits	000 to 999	000														
U251	<p>Checking/clearing the maintenance count</p> <p>Description Displays, clears and changes the maintenance count.</p> <p>Purpose To check the maintenance count. Also to clear the count during maintenance service.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 3</td><td>Clearing the count</td><td>-</td><td>-</td></tr></table> <p>Clearing</p> <ol style="list-style-type: none">1. Light exp. 3.2. Press the start key. The count is cleared. <p>Setting</p> <ol style="list-style-type: none">1. Change the count using the numeric or zoom +/- keys.2. Press the start key. The count is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000	Exp. 3	Clearing the count	-	-
Exposure indicator	Description	Setting range	Initial setting														
Exp. 1	First 3 digits	000 to 999	000														
Exp. 2	Last 3 digits	000 to 999	000														
Exp. 3	Clearing the count	-	-														

Maintenance item No.	Description																											
U252	<p>Setting the destination</p> <p>Description Switches the operations and screens of the machine according to the destination.</p> <p>Purpose To return the destination setting to its default setting after initializing the backup RAM by running maintenance item U020.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select the destination using the zoom +/- keys.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>Jpn</td><td>Metric (Japan) specifications</td></tr><tr><td>Inc</td><td>Inch (North America) specifications</td></tr><tr><td>EUP</td><td>Metric (Europe) specifications</td></tr><tr><td>ASA</td><td>Metric (Asia Pacific) specifications</td></tr><tr><td>Chn</td><td>Chinese specifications</td></tr></table><div><div>3. Press the start key. The setting is set.</div><div>4. The machine automatically returns to the same status as when the power is turned on.</div></div></div> <p>Supplement The specified initial settings are provided according to the destinations in the maintenance items below. To change the initial settings in those items, be sure to run maintenance item U021 after changing the destination.</p> <p>Initial setting according to the destinations</p> <table><tr><th>Maintenance item No.</th><th>Title</th><th>Japan</th><th>Inch</th><th>Europe Metric, Asia Pacific, China</th></tr><tr><td>253</td><td>Switching between double and single counts</td><td>Single</td><td>Double</td><td>Double</td></tr><tr><td>344</td><td>Setting the low-power mode</td><td>ENERGY STAR</td><td>ENERGY STAR</td><td>GEEA</td></tr></table>	Display	Description	Jpn	Metric (Japan) specifications	Inc	Inch (North America) specifications	EUP	Metric (Europe) specifications	ASA	Metric (Asia Pacific) specifications	Chn	Chinese specifications	Maintenance item No.	Title	Japan	Inch	Europe Metric, Asia Pacific, China	253	Switching between double and single counts	Single	Double	Double	344	Setting the low-power mode	ENERGY STAR	ENERGY STAR	GEEA
Display	Description																											
Jpn	Metric (Japan) specifications																											
Inc	Inch (North America) specifications																											
EUP	Metric (Europe) specifications																											
ASA	Metric (Asia Pacific) specifications																											
Chn	Chinese specifications																											
Maintenance item No.	Title	Japan	Inch	Europe Metric, Asia Pacific, China																								
253	Switching between double and single counts	Single	Double	Double																								
344	Setting the low-power mode	ENERGY STAR	ENERGY STAR	GEEA																								
U253	<p>Switching between double and single counts</p> <p>Description Switches the count system for the total counter and other counters.</p> <p>Purpose According to user (copy service provider) request, select if A3/Ledger paper is to be counted as one sheet (single count) or two sheets (double count).</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the zoom +/- keys.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>Sin</td><td>Single count for all size paper</td></tr><tr><td>-b4</td><td>Double count for B4 size or larger</td></tr><tr><td>-A3</td><td>Double count for A3/Ledger paper only</td></tr><tr><td>-Fo</td><td>Double count for Folio/Legal size or larger</td></tr></table><div><div>Initial setting: -A3</div><div>3. Press the start key. The setting is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Sin	Single count for all size paper	-b4	Double count for B4 size or larger	-A3	Double count for A3/Ledger paper only	-Fo	Double count for Folio/Legal size or larger																	
Display	Description																											
Sin	Single count for all size paper																											
-b4	Double count for B4 size or larger																											
-A3	Double count for A3/Ledger paper only																											
-Fo	Double count for Folio/Legal size or larger																											

Maintenance item No.	Description						
U254	<p>Turning auto start function on/off</p> <p>Description Selects if the auto start function is turned on.</p> <p>Purpose Normally no change is necessary. If incorrect operation occurs, turn the function off: this may solve the problem.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select either "on" or "oFF" using the zoom +/- keys. <table border="1"> <thead> <tr> <th>Display</th><th>Description</th></tr> </thead> <tbody> <tr> <td>on</td><td>Auto start function on</td></tr> <tr> <td>oFF</td><td>Auto start function off</td></tr> </tbody> </table> <p>Initial setting: on</p> <ol style="list-style-type: none"> 3. Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	on	Auto start function on	oFF	Auto start function off
Display	Description						
on	Auto start function on						
oFF	Auto start function off						
U260	<p>Selecting the timing for copy counting</p> <p>Description Changes the copy count timing for the total counter and other counters.</p> <p>Purpose To be set according to user (copy service provider) request. If a paper jam occurs frequently in the eject section when the number of copies is counted at the time of paper ejection, copies are provided without copy counts. The copy service provider cannot charge for such copying. To prevent this, the copy timing should be made earlier. If a paper jam occurs frequently in the paper conveying or fuser sections when the number of copies is counted before the paper reaches those sections, copying is charged without a copy being made. To prevent this, the copy timing should be made later.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the copy count timing using the zoom +/- keys. <table border="1"> <thead> <tr> <th>Display</th><th>Description</th></tr> </thead> <tbody> <tr> <td>FEd</td><td>When secondary paper feed starts</td></tr> <tr> <td>EJE</td><td>When the paper is ejected</td></tr> </tbody> </table> <p>Initial setting: EJE</p> <ol style="list-style-type: none"> 3. Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	FEd	When secondary paper feed starts	EJE	When the paper is ejected
Display	Description						
FEd	When secondary paper feed starts						
EJE	When the paper is ejected						
U265	<p>Setting the destination specifications</p> <p>Description Sets the OEM purchaser code.</p> <p>Purpose Sets the code when replacing the main PWB and the like.</p> <p>Setting</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Change the preset value using the zoom +/- keys. 3. Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>						

Maintenance item No.	Description																																
U277	<p>Setting auto application change time</p> <p>Description Sets the time that passes until the machine starts automatically printing after completing copying or operation when the machine is used as a printer.</p> <p>Purpose According to user request, changes the setting.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Change the setting using the zoom +/- keys.</div></div><table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Switching time</td><td>30 to 270 (s)</td><td>30</td></tr></table><div>The setting can be changed by 30 s per step.</div><div><div>3. Press the start key. The value is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Switching time	30 to 270 (s)	30																										
Description	Setting range	Initial setting																															
Switching time	30 to 270 (s)	30																															
U285	<p>Setting service status page</p> <p>Description Determines displaying the digital dot coverage report on reporting.</p> <p>Purpose According to user request, changes the setting.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select "on" or "oFF" using the zoom +/- keys.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>on</td><td>Displays the digital dot coverage</td></tr><tr><td>oFF</td><td>Not to display the digital dot coverage</td></tr></table><div>Initial setting: on</div><div><div>3. Press the start key. The setting is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	on	Displays the digital dot coverage	oFF	Not to display the digital dot coverage																										
Display	Description																																
on	Displays the digital dot coverage																																
oFF	Not to display the digital dot coverage																																
U286	<p>Setting the optional language</p> <p>Description Assign an optional language to add to the user language options.</p> <p>Purpose Perform this step to add an optional language.</p> <p>Method Press the start key.</p> <p>Setting</p> <div><div><div>1. Change the setting using the zoom +/- keys.</div></div><table><tr><th>Setting</th><th>Description</th><th>Setting</th><th>Description</th></tr><tr><td>0</td><td>No selection</td><td>7</td><td>Finnish</td></tr><tr><td>1</td><td>Dutch</td><td>8</td><td>Portuguese</td></tr><tr><td>2</td><td>Turkish</td><td>9</td><td>Czech</td></tr><tr><td>3</td><td>Polish</td><td>10</td><td>Hungarian</td></tr><tr><td>4</td><td>Norwegian</td><td>11</td><td>Greek</td></tr><tr><td>5</td><td>Swedish</td><td>12</td><td>Lithuanian</td></tr><tr><td>6</td><td>Danish</td><td>13</td><td>Hebrew</td></tr></table><div>Initial setting: 0</div><div><div>2. Press the start key. The value is set.</div></div></div> <p>Completion Press the stop/clear key. The indication for selecting a maintenance item No. appears.</p>	Setting	Description	Setting	Description	0	No selection	7	Finnish	1	Dutch	8	Portuguese	2	Turkish	9	Czech	3	Polish	10	Hungarian	4	Norwegian	11	Greek	5	Swedish	12	Lithuanian	6	Danish	13	Hebrew
Setting	Description	Setting	Description																														
0	No selection	7	Finnish																														
1	Dutch	8	Portuguese																														
2	Turkish	9	Czech																														
3	Polish	10	Hungarian																														
4	Norwegian	11	Greek																														
5	Swedish	12	Lithuanian																														
6	Danish	13	Hebrew																														

Maintenance item No.	Description										
U332	<p>Setting the size conversion factor</p> <p>Description Sets the coefficient of nonstandard sizes in relation to the A4/Letter size. The coefficient set here is used to convert the black ratio in relation to the A4/Letter size and to display the result in user simulation.</p> <p>Purpose To set the coefficient for converting the black ratio for nonstandard sizes in relation to the A4/Letter size for copying and printing respectively.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Change the setting using the zoom +/- keys. <table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Size conversion factor</td><td>0.0 to 3.0</td><td>1.0</td></tr></table> <ol style="list-style-type: none">3. Press the start key. The value is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Description	Setting range	Initial setting	Size conversion factor	0.0 to 3.0	1.0				
Description	Setting range	Initial setting									
Size conversion factor	0.0 to 3.0	1.0									
U341	<p>Specific paper feed location setting for printing function</p> <p>Description Sets a paper feed location specified for printer output.</p> <p>Purpose To use a paper feed location only for printer output. A paper feed location specified for printer output cannot be used for copy output.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Select the paper feed location for the printer using the exposure adjustment keys.3. Select "on" or "oFF" using the zoom +/- keys. <table><tr><th>Display</th><th>Description</th></tr><tr><td>Exp. 1</td><td>Cassette</td></tr><tr><td>Exp. 2</td><td>Optional first paper feeder</td></tr><tr><td>Exp. 3</td><td>Optional second paper feeder</td></tr><tr><td>Exp. 4</td><td>Optional third paper feeder</td></tr></table> <ol style="list-style-type: none">4. Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	Exp. 1	Cassette	Exp. 2	Optional first paper feeder	Exp. 3	Optional second paper feeder	Exp. 4	Optional third paper feeder
Display	Description										
Exp. 1	Cassette										
Exp. 2	Optional first paper feeder										
Exp. 3	Optional second paper feeder										
Exp. 4	Optional third paper feeder										
U342	<p>Setting the ejection restriction</p> <p>Description Sets or cancels the restriction on the number of sheets to be ejected continuously. When the restriction is set, the number of sheets that can be ejected continuously will be limited to 250.</p> <p>Purpose According to user request, sets or cancels restriction on the number of sheets.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Select "on" or "oFF" using the zoom +/- keys. <table><tr><th>Display</th><th>Description</th></tr><tr><td>on</td><td>The number of sheets restricted.</td></tr><tr><td>oFF</td><td>The number of sheets not restricted.</td></tr></table> <p>Initial setting: on</p> <ol style="list-style-type: none">3. Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	on	The number of sheets restricted.	oFF	The number of sheets not restricted.				
Display	Description										
on	The number of sheets restricted.										
oFF	The number of sheets not restricted.										

Maintenance item No.	Description												
U343	<p>Switching between duplex/simplex copy mode</p> <p>Description Switches the Initial setting between duplex and simplex copy.</p> <p>Purpose To be set, according to frequency of use, to the more frequently used mode.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select "on" or "oFF" using the zoom +/- keys.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>on</td><td>Duplex copy</td></tr><tr><td>oFF</td><td>Simplex copy</td></tr></table><div>Initial setting: Simplex copy</div><div><div>3. Press the start key. The setting is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	on	Duplex copy	oFF	Simplex copy						
Display	Description												
on	Duplex copy												
oFF	Simplex copy												
U344	<p>Setting the low-power mode</p> <p>Description Changes the control for low-power mode.</p> <p>Purpose According to user request, selects which has priority, the recovery time from low-power or energy saver.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Change the setting using the zoom +/- keys.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>0</td><td>ENERGY STAR</td></tr><tr><td>1</td><td>GEEA</td></tr></table><div>Initial setting: ENERGY STAR</div><div>If GEEA is set, the Auto off mode setting is fixed to ON and cannot be changed. The maximum time for entering the low power mode and the off mode becomes 120 minutes.</div><div><div>3. Press the start key. The setting is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	0	ENERGY STAR	1	GEEA						
Display	Description												
0	ENERGY STAR												
1	GEEA												
U345	<p>Setting the value for maintenance due indication</p> <p>Description Sets when to display a message notifying that the time for maintenance is about to be reached, by setting the number of copies that can be made before the current maintenance cycle ends. When the difference between the number of copies of the maintenance cycle and that of the maintenance count reaches the set value, the message is displayed.</p> <p>Purpose To change the time for maintenance due indication.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr></table><div><div>3. Change the setting using the zoom +/- keys.</div><div>4. Press the start key. The value is set.</div></div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000
Exposure indicator	Description	Setting range	Initial setting										
Exp. 1	First 3 digits	000 to 999	000										
Exp. 2	Last 3 digits	000 to 999	000										

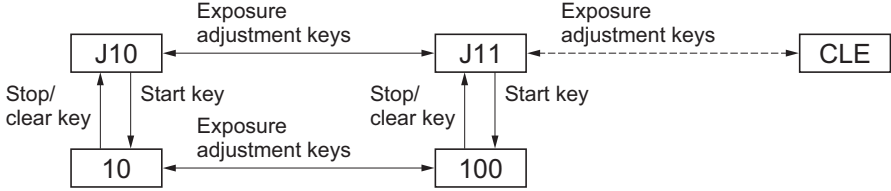
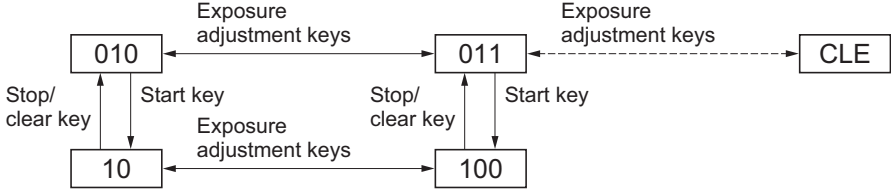
Maintenance item No.	Description																				
U402	<p>Adjusting margins of image printing</p> <p>Description Adjusts margins for image printing.</p> <p>Purpose Make the adjustment if margins are incorrect.</p> <p>Adjustment</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1</td><td>Printer leading edge margin</td><td>0.0 to 10.0</td><td>3.0</td><td>0.5 mm</td></tr><tr><td>Exp. 2</td><td>Printer left/right margins</td><td>-3.0 to 10.0</td><td>3.5</td><td>0.5 mm</td></tr><tr><td>Exp. 3</td><td>Printer trailing edge margin</td><td>-5.0 to 10.0</td><td>4.5</td><td>0.5 mm</td></tr></table><div><div><div>3. Press the interrupt key.</div><div>4. Press the start key to output a test pattern.</div><div>5. Change the setting value using the zoom +/- keys.</div></div><div>Increasing the value makes the margin wider, and decreasing it makes the margin narrower.</div></div><div><div><div><div>Printer leading edge margin (3.0±1.0 mm)</div><div>Printer left margin (2.5±1.0 mm)</div><div>Printer right margin (2.5±1.0 mm)</div><div>Printer trailing edge margin (3.0±1.0 mm)</div></div><div><div><div><div></div><div></div><div></div><div></div></div><div></div></div></div></div><p>Figure 1-3-17</p><div><div>6. Press the start key. The value is set.</div><p>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</p><div><div><div>U402</div><div>U403 (P.1-3-51)</div><div>U404 (P.1-3-52)</div></div></div><p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p></div></div></div>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1	Printer leading edge margin	0.0 to 10.0	3.0	0.5 mm	Exp. 2	Printer left/right margins	-3.0 to 10.0	3.5	0.5 mm	Exp. 3	Printer trailing edge margin	-5.0 to 10.0	4.5	0.5 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step																	
Exp. 1	Printer leading edge margin	0.0 to 10.0	3.0	0.5 mm																	
Exp. 2	Printer left/right margins	-3.0 to 10.0	3.5	0.5 mm																	
Exp. 3	Printer trailing edge margin	-5.0 to 10.0	4.5	0.5 mm																	

Maintenance item No.	Description																									
U403	<p>Adjusting margins for scanning an original on the contact glass</p> <p>Description Adjusts margins for scanning the original on the contact glass.</p> <p>Purpose Make the adjustment if margins are incorrect.</p> <p>Adjustment</p> <div><div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1</td><td>Scanner left margin</td><td>0.0 to 10.0</td><td>2.0</td><td>0.5 mm</td></tr><tr><td>Exp. 2</td><td>Scanner leading edge margin</td><td>0.0 to 10.0</td><td>3.0</td><td>0.5 mm</td></tr><tr><td>Exp. 3</td><td>Scanner right margin</td><td>0.0 to 10.0</td><td>2.0</td><td>0.5 mm</td></tr><tr><td>Exp. 4</td><td>Scanner trailing edge margin</td><td>0.0 to 10.0</td><td>2.0</td><td>0.5 mm</td></tr></table></div><div><div><div><div></div><div></div><div></div><div></div></div><div><div>Scanner leading edge margin (3.0±2.5 mm)</div><div>Scanner left margin (2.5+1.5/-2.0 mm)</div><div>Scanner right margin (2.5+1.5/-2.0 mm)</div><div>Scanner trailing edge margin (3.0±2.5 mm)</div></div></div></div><p>1. Press the start key.</p><p>2. Select the item using the exposure adjustment keys.</p><p>3. Press the interrupt key.</p><p>4. Place an original and press the start key to make a test copy.</p><p>5. Change the setting value using the zoom +/- keys. Increasing the value makes the margin wider, and decreasing it makes the margin narrower.</p></div>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1	Scanner left margin	0.0 to 10.0	2.0	0.5 mm	Exp. 2	Scanner leading edge margin	0.0 to 10.0	3.0	0.5 mm	Exp. 3	Scanner right margin	0.0 to 10.0	2.0	0.5 mm	Exp. 4	Scanner trailing edge margin	0.0 to 10.0	2.0	0.5 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step																						
Exp. 1	Scanner left margin	0.0 to 10.0	2.0	0.5 mm																						
Exp. 2	Scanner leading edge margin	0.0 to 10.0	3.0	0.5 mm																						
Exp. 3	Scanner right margin	0.0 to 10.0	2.0	0.5 mm																						
Exp. 4	Scanner trailing edge margin	0.0 to 10.0	2.0	0.5 mm																						
<p>6. Press the start key. The value is set.</p> <p>Caution Check the copy image after the adjustment. If the image is still incorrect, perform the following adjustments in maintenance mode.</p> <div><div>U403</div><div>→</div><div>U404 (P.1-3-52)</div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>																										

Maintenance item No.	Description																									
U404	<p>Adjusting margins for scanning an original from the DP</p> <p>Description Adjusts margins for scanning the original from the DP.</p> <p>Purpose Make the adjustment if margins are incorrect when the optional DP is used.</p> <p>Caution Before making this adjustment, ensure that the following adjustments have been made in maintenance mode</p> <div><div>U402 (P.1-3-50)</div>→<div>U403 (P.1-3-51)</div>→<div>U404</div></div> <p>Adjustment</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Exp. 1</td><td>Left margin</td><td>0.0 to 10.0</td><td>2.0</td><td>0.5 mm</td></tr><tr><td>Exp. 2</td><td>Leading edge margin</td><td>0.0 to 10.0</td><td>3.0</td><td>0.5 mm</td></tr><tr><td>Exp. 3</td><td>Right margin</td><td>0.0 to 10.0</td><td>2.0</td><td>0.5 mm</td></tr><tr><td>Exp. 4</td><td>Trailing edge margin</td><td>0.0 to 10.0</td><td>2.0</td><td>0.5 mm</td></tr></table><div><div><div>3. Press the interrupt key.</div><div>4. Place an original on the DP and press the start key to make a test copy.</div><div>5. Change the setting value using the zoom +/- keys.</div></div><div>Increasing the value makes the margin wider, and decreasing it makes the margin narrower.</div></div><div><p>Leading edge margin (3.0±2.5 mm)</p><p>Left margin (2.5+1.5/-2.0 mm)</p><p>Right margin (2.5+1.5/-2.0 mm)</p><p>Trailing edge margin (3.0±2.5 mm)</p></div><p>Figure 1-3-19</p><div><div><div>6. Press the start key. The value is set.</div></div><p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p></div></div>	Exposure indicator	Description	Setting range	Initial setting	Change in value per step	Exp. 1	Left margin	0.0 to 10.0	2.0	0.5 mm	Exp. 2	Leading edge margin	0.0 to 10.0	3.0	0.5 mm	Exp. 3	Right margin	0.0 to 10.0	2.0	0.5 mm	Exp. 4	Trailing edge margin	0.0 to 10.0	2.0	0.5 mm
Exposure indicator	Description	Setting range	Initial setting	Change in value per step																						
Exp. 1	Left margin	0.0 to 10.0	2.0	0.5 mm																						
Exp. 2	Leading edge margin	0.0 to 10.0	3.0	0.5 mm																						
Exp. 3	Right margin	0.0 to 10.0	2.0	0.5 mm																						
Exp. 4	Trailing edge margin	0.0 to 10.0	2.0	0.5 mm																						

Maintenance item No.	Description								
U407	<div><div>Adjusting the leading edge registration for memory image printing</div><div><div>Description</div><div>Adjusts the leading edge registration during memory copying.</div><div><div>Purpose</div><div>Make the following adjustment if there is a regular error between the leading edge of the copy image on the front face and that on the reverse face during duplex switchback copying.</div></div><div><div>Caution</div><div>Before making this adjustment, ensure that the following adjustments have been made in maintenance mode.</div></div><div><div><div><div>U034 (P.1-3-12)</div><div>→</div><div>U402 (P.1-3-50)</div><div>→</div><div>U066 (P.1-3-20)</div><div>→</div><div>U403 (P.1-3-51)</div><div>→</div><div>U071 (P.1-3-24)</div><div>→</div></div><div><div><div>U404 (P.1-3-52)</div><div>→</div><div>U407</div></div></div></div><div><div>Adjustment</div><div><div>1. Press the start key.</div><table><tr><th>Description</th><th>Setting range</th><th>Initial setting</th><th>Change in value per step</th></tr><tr><td>Leading edge registration for memory image printing</td><td>-10.0 to 10.0</td><td>0.0</td><td>1.0 mm</td></tr></table><div><div>2. Press the interrupt key.</div><div>3. Place an original and press the start key to make a test copy.</div><div>4. Change the setting value using the zoom +/- keys.</div><div><div>For copy example 1, increase the value.</div><div>For copy example 2, decrease the value.</div></div><div><div><div><div><div></div><div>↑</div></div><div>Original</div></div><div><div><div></div><div>↑</div></div><div>Copy example 1</div></div><div><div><div></div><div>↑</div></div><div>Copy example 2</div></div></div></div><div><div>Figure 1-3-20</div><div>5. Press the start key. The value is set.</div></div><div><div>Completion</div><div>Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</div></div></div></div></div></div></div></div>	Description	Setting range	Initial setting	Change in value per step	Leading edge registration for memory image printing	-10.0 to 10.0	0.0	1.0 mm
Description	Setting range	Initial setting	Change in value per step						
Leading edge registration for memory image printing	-10.0 to 10.0	0.0	1.0 mm						


Maintenance item No.	Description																					
U901	<p>Checking/clearing copy counts by paper feed locations</p> <p>Description Displays or clears copy counts by paper feed locations.</p> <p>Purpose To check the time to replace consumable parts. Also to clear the counts after replacing the consumable parts.</p> <p>Method</p> <ol style="list-style-type: none">Press the start key.Select the paper feed location (group No.) for which the count is to be checked or cleared using the image mode selection key.Select the item using the exposure adjustment keys. <table><tr><th>Image mode LED (group No.)</th><th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr><tr><td>1 <div><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 Exp. 2 Exp. 3</td><td>First 3 digits of MP copy count Last 3 digits of MP copy count Clearing the count (CLE)</td></tr><tr><td>2 <div><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 Exp. 2 Exp. 3</td><td>First 3 digits of the cassette copy count Last 3 digits of the cassette copy count Clearing the count (CLE)</td></tr><tr><td>3 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 Exp. 2 Exp. 3</td><td>First 3 digits of the first paper feeder copy count Last 3 digits of the first paper feeder copy count Clearing the count (CLE)</td></tr><tr><td>4 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 Exp. 2 Exp. 3</td><td>First 3 digits of the second paper feeder copy count Last 3 digits of the second paper feeder copy count Clearing the count (CLE)</td></tr><tr><td>5 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 Exp. 2 Exp. 3</td><td>First 3 digits of the third paper feeder copy count Last 3 digits of the third paper feeder copy count Clearing the count (CLE)</td></tr><tr><td>6 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div></td><td>Exp. 1 Exp. 2 Exp. 3</td><td>First 3 digits of the duplex unit copy count Last 3 digits of the duplex unit copy count Clearing the count (CLE)</td></tr></table> <p><input type="radio"/> : Off, <input checked="" type="radio"/> : On, : Flashing</p> <p>When no optional paper feed device is installed, the counts corresponding to optional paper feed devices will not appear.</p> <p>Clearing copy counts by paper feed locations</p> <ol style="list-style-type: none">Select the paper feed location to clear the count. Paper feeder copy count cannot be cleared.Light exp. 3 using the exposure adjustment key.Press the start key. The count is cleared. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)	1 <div><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of MP copy count Last 3 digits of MP copy count Clearing the count (CLE)	2 <div><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the cassette copy count Last 3 digits of the cassette copy count Clearing the count (CLE)	3 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the first paper feeder copy count Last 3 digits of the first paper feeder copy count Clearing the count (CLE)	4 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the second paper feeder copy count Last 3 digits of the second paper feeder copy count Clearing the count (CLE)	5 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the third paper feeder copy count Last 3 digits of the third paper feeder copy count Clearing the count (CLE)	6 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the duplex unit copy count Last 3 digits of the duplex unit copy count Clearing the count (CLE)
Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)																				
1 <div><div><input type="radio"/> Text & Photo</div><div><input type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of MP copy count Last 3 digits of MP copy count Clearing the count (CLE)																				
2 <div><div><input type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the cassette copy count Last 3 digits of the cassette copy count Clearing the count (CLE)																				
3 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the first paper feeder copy count Last 3 digits of the first paper feeder copy count Clearing the count (CLE)																				
4 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the second paper feeder copy count Last 3 digits of the second paper feeder copy count Clearing the count (CLE)																				
5 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the third paper feeder copy count Last 3 digits of the third paper feeder copy count Clearing the count (CLE)																				
6 <div><div><input checked="" type="radio"/> Text & Photo</div><div><input checked="" type="radio"/> Photo</div><div><input checked="" type="radio"/> Text</div></div>	Exp. 1 Exp. 2 Exp. 3	First 3 digits of the duplex unit copy count Last 3 digits of the duplex unit copy count Clearing the count (CLE)																				

Maintenance item No.	Description
U903	<p>Checking/clearing the paper jam counts</p> <p>Description Displays or clears the jam counts by jam locations.</p> <p>Purpose To check the paper jam status. Also to clear the jam counts after replacing consumable parts.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Display the jam code to check the count using the exposure adjustment keys. 3. Press the start key. The jam count appears. If the jam count is a 4-digit value, the first digit and the last 3 digits are displayed alternately. 4. Press the stop/clear key. The jam code appears again.  <p style="text-align: center;">Figure 1-3-21</p> <p>Clearing all jam counts</p> <ol style="list-style-type: none"> 1. Display "CLE" using the exposure adjustment keys. Jam counts cannot be cleared individually. 2. Press the start key. The counts are cleared. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>
U904	<p>Checking/clearing the service call counts</p> <p>Description Displays or clears the service call code counts by types.</p> <p>Purpose To check the service call code status by types. Also to clear the service call code counts after replacing consumable parts.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Display the service call code to check the count using the exposure adjustment keys. 3. Press the start key. The service call count appears. If the service call count is a 4-digit value, the first digit and the last 3 digits are displayed alternately. 4. Press the stop/clear key. The service call code appears again.  <p style="text-align: center;">Figure 1-3-22</p> <p>Clearing counts by service call codes</p> <ol style="list-style-type: none"> 1. Display the service call code to clear the count. 2. Press the reset key. The count is cleared. <p>Clearing all service call counts</p> <ol style="list-style-type: none"> 1. Display "CLE" using the exposure adjustment keys. 2. Press the start key. The counts are cleared. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>

Maintenance item No.	Description									
U905	<p>Checking counts by optional devices</p> <p>Description Displays the counts of DP or finisher.</p> <p>Purpose To check the use of DP and finisher.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the count (group No.) to be checked using the image mode selection key.3. Select the item using the exposure adjustment keys. <table><tr><th>Image mode LED (group No.)</th><th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr><tr><td>1<ul style="list-style-type: none"><input type="radio"/> Text & Photo<input type="radio"/> Photo<input checked="" type="radio"/> Text</td><td>Exp. 1 Exp. 2</td><td>First 3 digits of the no. of single-sided originals that has passed through the DP Last 3 digits of the no. of single-sided originals that has passed through the DP</td></tr><tr><td>2<ul style="list-style-type: none"><input type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text</td><td>Exp. 1 Exp. 2</td><td>First 3 digits of the no. of double-sided originals that has passed through the DP Last 3 digits of the no. of double-sided originals that has passed through the DP</td></tr></table> <p>○ : Off, ● : On</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)	1 <ul style="list-style-type: none"><input type="radio"/> Text & Photo<input type="radio"/> Photo<input checked="" type="radio"/> Text	Exp. 1 Exp. 2	First 3 digits of the no. of single-sided originals that has passed through the DP Last 3 digits of the no. of single-sided originals that has passed through the DP	2 <ul style="list-style-type: none"><input type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text	Exp. 1 Exp. 2	First 3 digits of the no. of double-sided originals that has passed through the DP Last 3 digits of the no. of double-sided originals that has passed through the DP
Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)								
1 <ul style="list-style-type: none"><input type="radio"/> Text & Photo<input type="radio"/> Photo<input checked="" type="radio"/> Text	Exp. 1 Exp. 2	First 3 digits of the no. of single-sided originals that has passed through the DP Last 3 digits of the no. of single-sided originals that has passed through the DP								
2 <ul style="list-style-type: none"><input type="radio"/> Text & Photo<input checked="" type="radio"/> Photo<input checked="" type="radio"/> Text	Exp. 1 Exp. 2	First 3 digits of the no. of double-sided originals that has passed through the DP Last 3 digits of the no. of double-sided originals that has passed through the DP								

Maintenance item No.	Description						
U908	<p>Checking the total count</p> <p>Description Display the total count value.</p> <p>Purpose To check the total count value.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select the item using the exposure adjustment keys. <table border="1"> <thead> <tr> <th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr> </thead> <tbody> <tr> <td>Exp. 1</td><td>First 3 digits of the total count</td></tr> <tr> <td>Exp. 2</td><td>Last 3 digits of the total count</td></tr> </tbody> </table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Copy quantity display (count value)	Exp. 1	First 3 digits of the total count	Exp. 2	Last 3 digits of the total count
Exposure indicator	Copy quantity display (count value)						
Exp. 1	First 3 digits of the total count						
Exp. 2	Last 3 digits of the total count						
U910	<p>Clearing the black ratio data</p> <p>Description Clears the accumulated black ratio data for A4/Letter sheets.</p> <p>Purpose To clear data as required at times such as during maintenance service.</p> <p>Method</p> <ol style="list-style-type: none"> 1. Press the start key. 2. Select "on" using the zoom +/- keys. <table border="1"> <thead> <tr> <th>Display</th><th>Operation</th></tr> </thead> <tbody> <tr> <td>- - -</td><td>Canceling the clearing</td></tr> <tr> <td>on</td><td>Executing the clearing</td></tr> </tbody> </table> <ol style="list-style-type: none"> 3. Press the start key. The accumulated black ratio data is cleared. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Operation	- - -	Canceling the clearing	on	Executing the clearing
Display	Operation						
- - -	Canceling the clearing						
on	Executing the clearing						

Maintenance item No.	Description																														
U911	<p>Checking/clearing copy counts by paper sizes</p> <p>Description Displays or clears the paper feed count value by paper size.</p> <p>Purpose To check the time to replace consumable parts. Also to clear the counts after replacing the consumable parts.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the paper size (group No.) for which the count is to be checked or cleared using the image mode selection key.3. Select the item using the exposure adjustment keys. <table><tr><th>Image mode LED (group No.)</th><th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr><tr><td>1 <div><input type="radio"/> Text & Photo <input type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-A3" display the A3 size First 3 digits of A3 size copy count Last 3 digits of A3 size copy count Clearing the count (CLE)</td></tr><tr><td>2 <div><input type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-b4" display the B4 size First 3 digits of B4 size copy count Last 3 digits of B4 size copy count Clearing the count (CLE)</td></tr><tr><td>3 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-A4" display the A4 size First 3 digits of A4 size copy count Last 3 digits of A4 size copy count Clearing the count (CLE)</td></tr><tr><td>4 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-b5" display the B5 size First 3 digits of FOLIO size copy count Last 3 digits of FOLIO size copy count Clearing the count (CLE)</td></tr><tr><td>5 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-A5" display the A5 size First 3 digits of Legal size copy count Last 3 digits of Legal size copy count Clearing the count (CLE)</td></tr><tr><td>6 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-A6" display the A6 size First 3 digits of Letter size copy count Last 3 digits of Letter size copy count Clearing the count (CLE)</td></tr><tr><td>7 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-Fo" display the FOLIO size First 3 digits of FOLIO size copy count Last 3 digits of FOLIO size copy count Clearing the count (CLE)</td></tr><tr><td>8 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-Ld" display the Ledger size First 3 digits of Ledger size copy count Last 3 digits of Ledger size copy count Clearing the count (CLE)</td></tr><tr><td>9 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-Lg" display the Legal size First 3 digits of Legal size copy count Last 3 digits of Legal size copy count Clearing the count (CLE)</td></tr></table> <p>○ : Off, ● : On, ☀ : Flashing</p>	Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)	1 <div><input type="radio"/> Text & Photo <input type="radio"/> Photo <input checked="" type="radio"/> Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-A3" display the A3 size First 3 digits of A3 size copy count Last 3 digits of A3 size copy count Clearing the count (CLE)	2 <div><input type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-b4" display the B4 size First 3 digits of B4 size copy count Last 3 digits of B4 size copy count Clearing the count (CLE)	3 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-A4" display the A4 size First 3 digits of A4 size copy count Last 3 digits of A4 size copy count Clearing the count (CLE)	4 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-b5" display the B5 size First 3 digits of FOLIO size copy count Last 3 digits of FOLIO size copy count Clearing the count (CLE)	5 <div><input checked="" type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input checked="" type="radio"/> Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-A5" display the A5 size First 3 digits of Legal size copy count Last 3 digits of Legal size copy count Clearing the count (CLE)	6 <div><input checked="" 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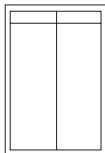
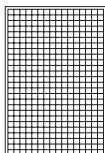

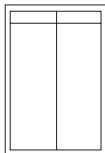
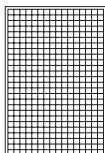

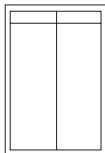
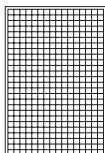

Maintenance item No.	Description															
U911 (cont.)	<table><tr><th>Image mode LED (group No.)</th><th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr><tr><td>10 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-Lt" display the Letter size First 3 digits of Letter size copy count Last 3 digits of Letter size copy count Clearing the count (CLE)</td></tr><tr><td>11 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-St" display the Statement size First 3 digits of Statement size copy count Last 3 digits of Statement size copy count Clearing the count (CLE)</td></tr><tr><td>12 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div></td><td>Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)</td><td>"-ot" display the other size First 3 digits of other size copy count Last 3 digits of other size copy count Clearing the count (CLE)</td></tr><tr><td>13 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div></td><td>Exp. 1 (lit)</td><td>Clearing all counts (CLE)</td></tr></table> <p>○ : Off, ● : On,  : Flashing</p> <p>Clearing copy counts by paper size</p> <ol style="list-style-type: none">1. Select the paper size to clear the count.2. Display "CLE" using the exposure adjustment keys.3. Press the start key. The count is cleared. <p>Clearing copy counts for all paper size</p> <ol style="list-style-type: none">1. Select group 13.2. Press the start key. The counts are cleared. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)	10 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-Lt" display the Letter size First 3 digits of Letter size copy count Last 3 digits of Letter size copy count Clearing the count (CLE)	11 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-St" display the Statement size First 3 digits of Statement size copy count Last 3 digits of Statement size copy count Clearing the count (CLE)	12 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 (lit) Exp. 2 (lit) Exp. 3 (lit) Exp. 4 (lit)	"-ot" display the other size First 3 digits of other size copy count Last 3 digits of other size copy count Clearing the count (CLE)	13 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 (lit)	Clearing all counts (CLE)
Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)														
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13 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 (lit)	Clearing all counts (CLE)														
U920	<p>Checking the accounting counts</p> <p>Description Checks the accounting counts.</p> <p>Purpose To check the accounting counts.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item for which the count is to be checked using the image mode selection key.3. Select the item using the exposure adjustment keys. <table><tr><th>Image mode LED (group No.)</th><th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr><tr><td>1 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div></td><td>Exp. 1 Exp. 2</td><td>First 3 digits of copy count Last 3 digits of copy count</td></tr><tr><td>2 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div></td><td>Exp. 1 Exp. 2</td><td>First 3 digits of printer count Last 3 digits of printer count</td></tr></table> <p>○ : Off, ● : On</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)	1 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 Exp. 2	First 3 digits of copy count Last 3 digits of copy count	2 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 Exp. 2	First 3 digits of printer count Last 3 digits of printer count						
Image mode LED (group No.)	Exposure indicator	Copy quantity display (count value)														
1 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 Exp. 2	First 3 digits of copy count Last 3 digits of copy count														
2 <div><div><div></div><div></div></div>Text & Photo <div><div></div><div></div></div>Photo <div><div></div><div></div></div>Text</div>	Exp. 1 Exp. 2	First 3 digits of printer count Last 3 digits of printer count														

Maintenance item No.	Description												
U927	<p>Clearing the all copy counts and machine life counts (one time only)</p> <p>Description Resets all of the counts back to 0.</p> <p>Purpose To start the counters with value 0 when installing the machine.</p> <p>Supplement The total account counter and the machine life counter can be cleared only once if all count values are 1000 or less.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key. If the counters have been already cleared or either of the total counter or the scanner counter exceeds 1,000, this mode cannot be run and "nG" is displayed.2. Select "on" using the zoom +/- keys. <table><tr><th>Display</th><th>Operation</th></tr><tr><td>- - -</td><td>Canceling the clearing</td></tr><tr><td>on</td><td>Executing the clearing</td></tr></table> <ol style="list-style-type: none">3. Press the start key. The accounting counter is cleared. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Operation	- - -	Canceling the clearing	on	Executing the clearing						
Display	Operation												
- - -	Canceling the clearing												
on	Executing the clearing												
U928	<p>Checking the machine life count</p> <p>Description Displays the machine life counts for checking a figure.</p> <p>Purpose To check machine status.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>First 3 digits</td><td>000 to 999</td><td>000</td></tr><tr><td>Exp. 2</td><td>Last 3 digits</td><td>000 to 999</td><td>000</td></tr></table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	First 3 digits	000 to 999	000	Exp. 2	Last 3 digits	000 to 999	000
Exposure indicator	Description	Setting range	Initial setting										
Exp. 1	First 3 digits	000 to 999	000										
Exp. 2	Last 3 digits	000 to 999	000										
U931	<p>Setting the automatic toner install</p> <p>Description Sets automatic toner installation on or off when power is turned on.</p> <p>Purpose Changed to off when deactivating automatic toner installation.</p> <p>Setting</p> <ol style="list-style-type: none">1. Press the start key.2. Select ON or OFF using the zoom +/- keys. <table><tr><th>Display</th><th>Description</th></tr><tr><td>ON</td><td>Automatic toner install function ON</td></tr><tr><td>OFF</td><td>Automatic toner install function OFF</td></tr></table> <p>Initial setting: ON</p> <ol style="list-style-type: none">3. Press the start key. The setting is set.4. The machine automatically returns to the same status as when the power is turned on.	Display	Description	ON	Automatic toner install function ON	OFF	Automatic toner install function OFF						
Display	Description												
ON	Automatic toner install function ON												
OFF	Automatic toner install function OFF												

Maintenance item No.	Description												
U941	<p>Setting the default magnification ratio of the default cassette</p> <p>Description Sets the default magnification ratio when paper selection of copy default setting is set to the default cassette.</p> <p>Purpose To be set according to user request.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select the magnification using the exposure adjustment keys.</div></div><table><tr><th>Display</th><th>Description</th></tr><tr><td>100</td><td>100% magnification</td></tr><tr><td>Aut</td><td>Auto magnification selection</td></tr></table><div>Initial setting: 100% magnification</div><div>3. Press the start key. The setting is set.</div></div> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	Description	100	100% magnification	Aut	Auto magnification selection						
Display	Description												
100	100% magnification												
Aut	Auto magnification selection												
U942	<p>Setting of amount of slack for feeding from DP</p> <p>Description Adjusts the deflection generated when the DP is used.</p> <p>Purpose Use this mode if an original non-feed jam, oblique feed or wrinkling of original occurs when the DP is used.</p> <p>Setting</p> <div><div><div>1. Press the start key.</div><div>2. Select the item using the exposure adjustment keys.</div></div><table><tr><th>Exposure indicator</th><th>Description</th><th>Setting range</th><th>Initial setting</th></tr><tr><td>Exp. 1</td><td>Original feed motor (OFM) (in simplex feed)</td><td>-10 to 20</td><td>0</td></tr><tr><td>Exp. 2</td><td>Original switchback motor (OSBM) (in duplex feed)</td><td>-10 to 20</td><td>0</td></tr></table><div><div>3. Press the interrupt key.</div><div>4. Place an original on the DP and press the start key to make a test copy.</div><div>5. Change the setting value using the zoom +/- keys. The greater the value, the larger the amount of slack; the smaller the value, the smaller the amount of slack. If an original non-feed jam or oblique feed occurs, increase the setting value. If wrinkling of original occurs, decrease the value.</div><div>6. Press the start key. The value is set.</div></div><p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p></div>	Exposure indicator	Description	Setting range	Initial setting	Exp. 1	Original feed motor (OFM) (in simplex feed)	-10 to 20	0	Exp. 2	Original switchback motor (OSBM) (in duplex feed)	-10 to 20	0
Exposure indicator	Description	Setting range	Initial setting										
Exp. 1	Original feed motor (OFM) (in simplex feed)	-10 to 20	0										
Exp. 2	Original switchback motor (OSBM) (in duplex feed)	-10 to 20	0										

Maintenance item No.	Description																		
U955	<p>Setting operation panel type</p> <p>Description Sets the type of operation panel and LCD device.</p> <p>Purpose To set the type of operation panel and LCD device when the setting value is initialized by U020 on the machine with the operation panel for Taiwan or the LCD that displays Kanji.</p> <p>Start</p> <ol style="list-style-type: none"> Press the start key. Select the item to be adjusted using the image mode selection key. <table border="1"> <thead> <tr> <th>Image mode LEDs</th><th>Description</th></tr> </thead> <tbody> <tr> <td> <input type="radio"/> Text & Photo <input type="radio"/> Photo <input checked="" type="radio"/> Text </td><td>Sets the type of operation panel</td></tr> <tr> <td> <input type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input type="radio"/> Text </td><td>Sets the type of LCD device type</td></tr> </tbody> </table> <p>○ : Off, ● : On</p> <p>Setting: operation panel type</p> <ol style="list-style-type: none"> Change the setting using the zoom +/- keys. <table border="1"> <thead> <tr> <th>Display</th><th>Description</th></tr> </thead> <tbody> <tr> <td>0</td><td>Off</td></tr> <tr> <td>1</td><td>Operation panel for Taiwan</td></tr> </tbody> </table> <p>Initial setting: 0</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Setting: LCD device type</p> <ol style="list-style-type: none"> Change the setting using the zoom +/- keys. <table border="1"> <thead> <tr> <th>Display</th><th>Description</th></tr> </thead> <tbody> <tr> <td>0</td><td>General LCD</td></tr> <tr> <td>1</td><td>Kanji display LCD</td></tr> </tbody> </table> <p>Initial setting: 0</p> <ol style="list-style-type: none"> Press the start key. The setting is set. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Image mode LEDs	Description	<input type="radio"/> Text & Photo <input type="radio"/> Photo <input checked="" type="radio"/> Text	Sets the type of operation panel	<input type="radio"/> Text & Photo <input checked="" type="radio"/> Photo <input type="radio"/> Text	Sets the type of LCD device type	Display	Description	0	Off	1	Operation panel for Taiwan	Display	Description	0	General LCD	1	Kanji display LCD
Image mode LEDs	Description																		
<input type="radio"/> Text & Photo <input type="radio"/> Photo <input checked="" type="radio"/> Text	Sets the type of operation panel																		
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Display	Description																		
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Display	Description																		
0	General LCD																		
1	Kanji display LCD																		

Maintenance item No.	Description								
U969	<p>Checking of toner area code</p> <p>Description Displays the toner area code.</p> <p>Purpose To check the toner area code.</p> <p>Method 1. Press the start key. The toner area code is displayed.</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>								
U990	<p>Checking/clearing the time for the exposure lamp to light</p> <p>Description Displays or clears the accumulated time for the exposure lamp to light.</p> <p>Purpose To check duration of use of the exposure lamp. Also to clear the accumulated time for the lamp after replacement.</p> <p>Method 1. Press the start key. 2. Select the item using the exposure adjustment keys.</p> <table border="1" data-bbox="333 808 1398 976"> <thead> <tr> <th>Exposure indicator</th><th>Copy quantity display</th></tr> </thead> <tbody> <tr> <td>Exp. 1</td><td>First 3 digits of the lamp-on time (minutes)</td></tr> <tr> <td>Exp. 2</td><td>Last 3 digits of the lamp-on time (minutes)</td></tr> <tr> <td>Exp. 3</td><td>Clearing the lamp-on time (CLE)</td></tr> </tbody> </table> <p>Clearing 1. Light exp. 3. 2. Press the start key. The accumulated time is cleared.</p> <p>Setting 1. Change the accumulated time using the numeric or zoom +/- keys. 2. Press the start key. The accumulated time is set.</p> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Copy quantity display	Exp. 1	First 3 digits of the lamp-on time (minutes)	Exp. 2	Last 3 digits of the lamp-on time (minutes)	Exp. 3	Clearing the lamp-on time (CLE)
Exposure indicator	Copy quantity display								
Exp. 1	First 3 digits of the lamp-on time (minutes)								
Exp. 2	Last 3 digits of the lamp-on time (minutes)								
Exp. 3	Clearing the lamp-on time (CLE)								

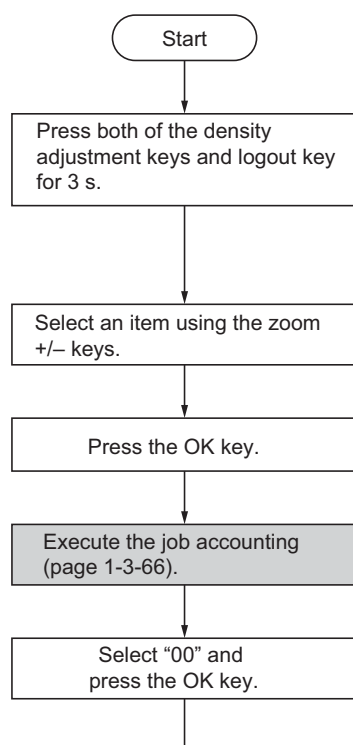
Maintenance item No.	Description												
U991	<p>Checking the scanner count</p> <p>Description Displays the scanner operation count.</p> <p>Purpose To check the status of use of the scanner.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the item using the exposure adjustment keys. <table><tr><th>Exposure indicator</th><th>Copy quantity display (count value)</th></tr><tr><td>Exp. 1</td><td>First 3 digits of the scanner count</td></tr><tr><td>Exp. 2</td><td>Last 3 digits of the scanner count</td></tr></table> <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Exposure indicator	Copy quantity display (count value)	Exp. 1	First 3 digits of the scanner count	Exp. 2	Last 3 digits of the scanner count						
Exposure indicator	Copy quantity display (count value)												
Exp. 1	First 3 digits of the scanner count												
Exp. 2	Last 3 digits of the scanner count												
U993	<p>Outputting a VTC-PG pattern</p> <p>Description Selects and outputs a VTC-PG pattern created in the machine.</p> <p>Purpose When performing respective image printing adjustments, used to check the machine status apart from that of the scanner with a non-scanned output VTC-PG pattern.</p> <p>Method</p> <ol style="list-style-type: none">1. Press the start key.2. Select the VTC-PG pattern to be output using the exposure adjustment keys. <table><tr><th>Display</th><th>PG pattern to be output</th><th>Purpose</th></tr><tr><td>0</td><td></td><td>Leading edge registration adjustment Center line adjustment Margin adjustment</td></tr><tr><td>1</td><td></td><td>Lateral squareness adjustment Magnification adjustment</td></tr><tr><td>2</td><td></td><td>Checking the fuser performance (fuser pressure)</td></tr></table> <ol style="list-style-type: none">3. Press the interrupt key.4. Press the start key. A VTC-PG pattern is output. <p>Completion Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.</p>	Display	PG pattern to be output	Purpose	0		Leading edge registration adjustment Center line adjustment Margin adjustment	1		Lateral squareness adjustment Magnification adjustment	2		Checking the fuser performance (fuser pressure)
Display	PG pattern to be output	Purpose											
0		Leading edge registration adjustment Center line adjustment Margin adjustment											
1		Lateral squareness adjustment Magnification adjustment											
2		Checking the fuser performance (fuser pressure)											

1-3-2 Management mode

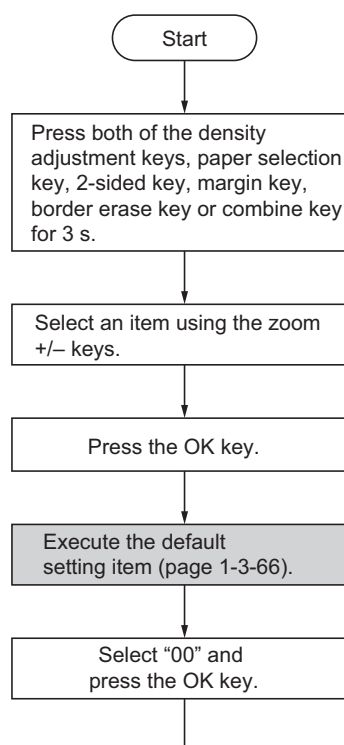
In addition to a maintenance function for service, the machine is equipped with a management function which can be operated by users (mainly by the administrator). In this management mode, settings such as default settings can be changed.

(1) Using the management mode

• Executing a department management item



• Executing a default setting item



End

(2) Job accounting**Job accounting on/off setting**

1. Press logout key and both of the density adjustment keys for 3 s.
2. Select [01.JobAccounting] and press the OK key.
3. Select [ON] or [OFF] and press the OK key.

Department ID code registration

1. Press logout key and both of the density adjustment keys for 3 s.
2. Select [02.Register code] and press the OK key.
3. Enter a department ID code using the numeric keys and press the OK key.
Setting range: 0 to 99999999

Deleting department ID codes

1. Press logout key and both of the density adjustment keys for 3 s.
2. Select [03.Delete code] and press the OK key.
3. Enter the department ID code to be deleted using the numeric keys
4. Select [YES] or [NO] and press the OK key.

Clearing the job accounting count

1. Press logout key and both of the density adjustment keys for 3 s.
2. Select [04.Count Clear] and press the OK key.
3. Select [YES] or [NO] and press the OK key.

Outputting the job accounting list

1. Press logout key and both of the density adjustment keys for 3 s.
2. Select [05.Print list] and press the OK key.
Check to make sure that A4/Letter size paper is loaded in the cassette.
3. Select [YES] and press the OK key.
List is printed out.

(3) Default setting**User status report**

Prints the details of the default settings.

1. Press both of the density adjustment keys for 3 s.
2. Select [01.Copy Status] and press the OK key.
Check to make sure that A4/Letter size paper is loaded in the cassette.
3. Select [YES] and press the OK key.
Report is printed out

Message language

Selects the language displayed on the message display.

1. Press both of the density adjustment keys for 3 s.
2. Select [02.Language] and press the OK key.
3. Select the language and press the OK key.

Original image quality

Selects the image quality at power-on.

1. Press both of the density adjustment keys for 3 s.
2. Select [03.Image Quality] and press the OK key.
3. Select [text + ph Dens.], [Photo Density] or [Text Density] and press the OK key.

Initial density

Selects the exposure mode at power-on.

1. Press both of the density adjustment keys for 3 s.
2. Select [04.Initial Dens.] and press the OK key.
3. Select [Manual] or [Auto] and press the OK key.

EcoPrint

Selects the EcoPrint mode at power-on.

1. Press both of the density adjustment keys for 3 s.
2. Select [05.EcoPrint] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Density steps

Sets the number of density steps for the manual density mode.

1. Press both of the density adjustment keys for 3 s.
2. Select [06.Density steps] and press the OK key.
3. Select [1 step] or [0.5 step] and press the OK key.

Auto density adjustment

Adjusts the density for the auto density mode.

1. Press both of the density adjustment keys for 3 s.
2. Select [07.Auto Density] and press the OK key.
3. Select the setting and press the OK key.
Setting range: 1 (lightest) to 7 (darkest)

Text + photo mode density adjustment

Adjusts the density to be used when text and photo original is selected for the image mode.

1. Press both of the density adjustment keys for 3 s.
2. Select [08.Text+Ph Dens.] and press the OK key.
3. Select the setting and press the OK key.
Setting range: 1 (lightest) to 7 (darkest)

Photo density adjustment

Adjusts the density to be used when photo original is selected for the image mode.

1. Press both of the density adjustment keys for 3 s.
2. Select [09.Photo Density] and press the OK key.
3. Select the setting and press the OK key.
Setting range: 1 (lightest) to 7 (darkest)

Text density adjustment

Adjusts the density to be used when text original is selected for the image mode.

1. Press both of the density adjustment keys for 3 s.
2. Select [10.Text Density] and press the OK key.
3. Select the setting and press the OK key.
Setting range: 1 (lightest) to 7 (darkest)

Processing to reduce black lines

Reduces black lines that may be caused when the DP is used.

1. Press both of the density adjustment keys for 3 s.
2. Select [11.ReduceStreaks] and press the OK key.
3. Select [OFF], [Weak] or [Strong] and press the OK key.

Photo processing

Select the image processing method for photo originals.

1. Press both of the density adjustment keys for 3 s.
2. Select [12.OptimizePhoto] and press the OK key.
3. Select [ErrorDiffusion] or [Dither Matrix] and press the OK key.

Back ground adjustment

The ground color adjusting after copying.

1. Press both of the density adjustment keys for 3 s.
2. Select [13.OptimizeBackgr] and press the OK key.
3. Select the setting and press the OK key.
Setting range: 1 (lightest) to 5 (darkest)

Cassette selection

Select the auto paper select function based on the original size or priority cassette selection.

1. Press both of the density adjustment keys for 3 s.
2. Select [14.Initial Paper] and press the OK key.
3. Select [Auto] or [DefaultCassette] and press the OK key.

Selecting paper types for automatic paper selection

Selects the cassette that is to be automatically be given priority for use.

1. Press both of the density adjustment keys for 3 s.
2. Select [15.AutoSel Paper] and press the OK key.
3. Select the paper type and press the OK key.

Selected cassette

Selects the cassette that is to be automatically be given priority for use.

1. Press both of the density adjustment keys for 3 s.
2. Select [16.DefaultCassett] and press the OK key.
3. Select [Cassette1], [Cassette2], [Cassette3] or [Cassette4] and press the OK key.

Auto cassette switching

Sets whether the auto cassette switching function is available.

1. Press both of the density adjustment keys for 3 s.
2. Select [17.AutoCassettSel] and press the OK key.
3. Select [Disting. paper] or [Not disting] and press the OK key.
This will be displayed when the optional paper feeder is installed.

Auto sizing

Selects whether auto magnification selection or 100% magnification is to be given priority when the sizes of the original and copy paper are different.

1. Press both of the density adjustment keys for 3 s.
2. Select [18.PriorAutoZoom] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Cassette paper size (cassette 1)

Sets the paper size for the cassette so that it will be automatically selected.

1. Press paper selection keys for 3 s.
2. Select [19.Cassette1Size] and press the OK key.
3. Select the paper size and press the OK key.

Cassette paper size (cassette 2)

Sets the paper size for the first paper feeder so that it will be automatically selected.

1. Press paper selection keys for 3 s.
2. Select [20.Cassette2Size] and press the OK key.
3. Select the paper size and press the OK key.
This will be displayed when the optional paper feeder is installed.

Cassette paper size (cassette 3)

Sets the paper size for the second paper feeder so that it will be automatically selected.

1. Press paper selection keys for 3 s.
2. Select [21.Cassette3Size] and press the OK key.
3. Select the paper size and press the OK key.
This will be displayed when the optional paper feeder is installed.

Cassette paper size (cassette 4)

Sets the paper size for the third paper feeder so that it will be automatically selected.

1. Press paper selection keys for 3 s.
2. Select [22.Cassette4Size] and press the OK key.
3. Select the paper size and press the OK key.
This will be displayed when the optional paper feeder is installed.

MP tray paper size

Sets the paper size for the MP tray so that it will be automatically selected.

1. Press paper selection keys for 3 s.
2. Select [23.MPTray Config] and press the OK key.
3. Select the paper size and press the OK key.

Custom 1 size

Sets the size of the paper to be set to the custom 1 size.

1. Press both of the density adjustment keys for 3 s.
2. Select [24.Custom Size 1] and press the OK key.
3. Select the paper size and press the OK key.

Custom 2 size

Sets the size of the paper to be set to the custom 2 size.

1. Press both of the density adjustment keys for 3 s.
2. Select [25.Custom Size 2] and press the OK key.
3. Select the paper size and press the OK key.

Selecting media type (cassette 1)

Sets the paper type to the cassette.

1. Press both of the density adjustment keys for 3 s.
2. Select [26.Casst1MedType] and press the OK key.
3. Select the paper type and press the OK key.

Selecting media type (cassette 2)

Sets the paper type to the first paper feeder.

1. Press both of the density adjustment keys for 3 s.
2. Select [27.Casst2MedType] and press the OK key.
3. Select the paper type and press the OK key.
This will be displayed when the optional paper feeder is installed.

Selecting media type (cassette 3)

Sets the paper type to the second paper feeder.

1. Press both of the density adjustment keys for 3 s.
2. Select [28.Casst3MedType] and press the OK key.
3. Select the paper type and press the OK key.
This will be displayed when the optional paper feeder is installed.

Selecting media type (cassette 4)

Sets the paper type to the third paper feeder.

1. Press both of the density adjustment keys for 3 s.
2. Select [29.Casst4MedType] and press the OK key.
3. Select the paper type and press the OK key.
This will be displayed when the optional paper feeder is installed.

Specifying the paper weight and 2-sided copying to custom paper

Sets the paper weights and 2-sided copying to the custom 1 to 8.

1. Press both of the density adjustment keys for 3 s.
2. Select [30.CustmMedType1] to [37.CustmMedType8] and press the OK key.
3. Select the paper weight and press the OK key.
4. Select [On] or [Off] and press the OK key.

Auto detect originals

Predetermines what paper size is selected for printing when copying an original document of non-standard sizes.

1. Press both of the density adjustment keys for 3 s.
2. Select [38.Hagaki/A6RDet] and press the OK key.
3. Select [Hagaki] or [A6 R] and press the OK key.

Auto detect originals

Predetermines what paper size is selected for printing when copying an original document of non-standard sizes.

1. Press both of the density adjustment keys for 3 s.
2. Select [39.B4R/Folio Det] and press the OK key.
3. Select [B4 R] or [Folio R] and press the OK key.

Auto detect originals

When the size of original document is 11" x15", the original document is automatically zoomed.

1. Press both of the density adjustment keys for 3 s.
2. Select [40.11x15" Detect] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Copy limit

Sets the number of copies limit for multiple copying.

1. Press both of the density adjustment keys for 3 s.
2. Select [41.Copy Limit] and press the OK key.
3. Enter the setting and press the OK key.
Setting range: 1 to 999

2-sided copy reverse-side rotation setting

Select whether or not the image on the reverse side is rotated 180 degrees in the 2-sided copy mode.

1. Press 2-sided key for 3 s.
2. Select [42.Duplex 2nd] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Margin shift

Sets the default setting of the margin width for the margin copying.

1. Press margin key for 3 s.
 2. Select [43.Stitch Width] and press the OK key.
 3. Select the setting and press the OK key.
- Setting range: 1 to 18 mm/0.13" to 0,75"

Border width

Sets the default setting of the border width for the border erase mode.

1. Press border erase key for 3 s.
 2. Select [44.Border Erase] and press the OK key.
 3. Select the setting and press the OK key.
- Setting range: 1 to 18 mm/0.13" to 0,75"

4 in 1 layout order

Sets the layout for the order in which the originals will appear in the 4 in 1 layout mode.

1. Press combine key for 3 s.
 2. Select [45.4 in 1 Layout] and press the OK key.
 3. Select the setting and press the OK key.
- Portrait 1/Portrait 2/Landscape 1/Landscape 2

Combine mode borderline

Selects the type of borderline to be used in the layout mode.

1. Press combine key for 3 s.
2. Select [46.Combine Border] and press the OK key.
3. Select the [Off], [Solid] or [Dotted] and press the OK key.

Rotate collate setting

Sets whether or not to perform rotate sorting when the sort mode is selected.

1. Press both of the density adjustment keys for 3 s.
2. Select [47.Rotate/Offset] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Selecting auto rotation

Sets whether the automatic rotation by default.

1. Press both of the density adjustment keys for 3 s.
2. Select [48.Auto Rotation] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Silent mode transition time

Set the silent mode transition time after copying.

1. Press both of the density adjustment keys for 3 s.
 2. Select [49.Silent mode] and press the OK key.
 3. Select the setting and press the OK key.
- 0 sec/5 sec/10 sec/15 sec/30 sec

Auto clear setting

Sets whether the auto clear function is available.

1. Press both of the density adjustment keys for 3 s.
2. Select [50.Auto Clear] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Auto sleep setting

Sets whether the auto off function is available.

1. Press both of the density adjustment keys for 3 s.
2. Select [51.Auto Sleep] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Auto clear time

Sets the auto clear time.

1. Press both of the density adjustment keys for 3 s.
 2. Select [52.AutoClearTime] and press the OK key.
 3. Select the setting and press the OK key.
- Setting range: 10 to 270 sec

Low power mode transition time

Sets the auto preheat time.

1. Press both of the density adjustment keys for 3 s.
 2. Select [53.LowPower Time] and press the OK key.
 3. Select the setting and press the OK key.
- 1 min/5 min/15 min/30 min/45 min/60 min/90 min/120 min/180 min/240 min

Sleep mode transition time

Sets the auto shutoff time.

1. Press both of the density adjustment keys for 3 s.
 2. Select [54.AutoSleep Time] and press the OK key.
 3. Select the setting and press the OK key.
- 1 min/5 min/15 min/30 min/45 min/60 min/90 min/120 min/180 min/240 min

Alarm

The alarm can be set to sound when errors occur.

1. Press both of the density adjustment keys for 3 s.
2. Select [55.Alarm] and press the OK key.
3. Select [On] or [Off] and press the OK key.

Digital dot coverage report

Prints out a report that shows the number of copies made and the blackness ratio for each paper size.

1. Press both of the density adjustment keys for 3 s.
 2. Select [56.CoverageRepo] and press the OK key.
- Check to make sure that A4/Letter size paper is loaded in the cassette.
3. Select [YES] and press the OK key.
- Report is printed out

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1-4-1 Paper misfeed detection

(1) Paper misfeed indication

When a paper misfeed occurs, the machine immediately stops copying and displays the jam location on the operation panel.

Paper misfeed counts sorted by the detection condition can be checked in maintenance item U903.

To remove paper jammed in the machine, open the front cover, left cover or pull the cassette out.

To remove original jammed in the optional DP, open the document processor top cover.

To remove the jammed paper in optional document finisher, detach the finisher from the machine.

Paper misfeed detection can be reset by opening and closing the respective covers to turn safety switch off and on.

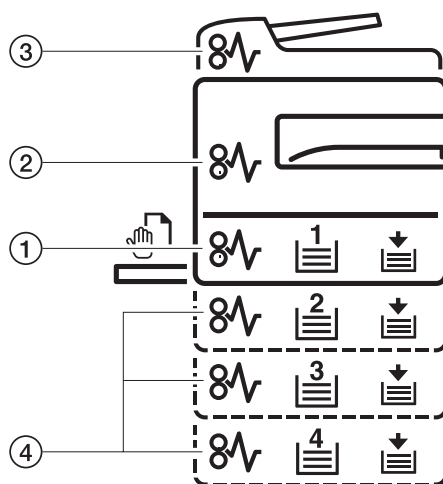


Figure 1-4-1

- (1) Misfeed in paper feed section
- (2) Misfeed in paper conveying section
- (3) Misfeed in document processor
- (4) Misfeed in paper feeder

(2) Paper misfeed detection conditions

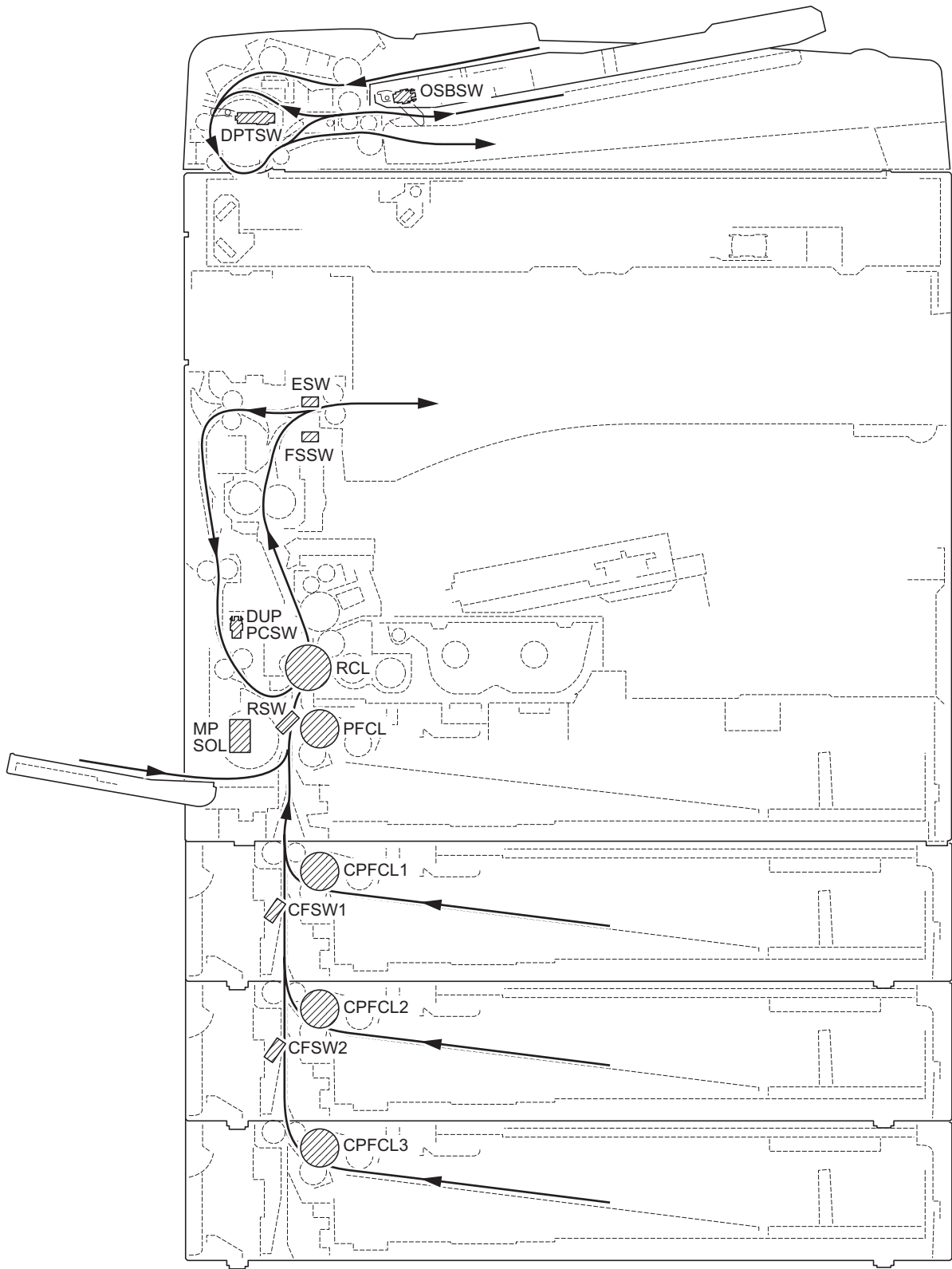


Figure 1-4-2

Section	Description	Conditions	Specified time
System	00 No paper feed	The power is turned on when a sensor in the conveying system is on.	-
		The document processor is opened while originals fed from the document processor are scanned.	-
	04 Cover open	Cover is open during copying.	-
	05 Secondary paper feed does not start	Secondary paper feed does not start within specified time of arrival of paper at the registration section.	30 s
Paper feed section	10 No paper feed from MP tray	The registration switch (RSW) does not turn on within the specified time of paper MP solenoid (MPSOL) turning on and cannot be detected at the same timing even after retry.	1570 ms
	11 No paper feed from cassette	The registration switch (RSW) does not turn on within the specified time of paper feed clutch 1 (PFCL1) turning on and cannot be detected at the same timing even after retry.	1327 ms
	12 No paper feed from first paper feeder	The registration switch (RSW) does not turn on within the specified time of cassette paper feed clutch 1 (CPFCL1) turning on and cannot be detected at the same timing even after retry.	2290 ms
	13 No paper feed from second paper feeder	Cassette feed switch 1 (CFSW1) does not turn on within the specified time of cassette paper feed clutch 2 (CPFCL2) turning on and cannot be detected at the same timing even after retry.	1953 ms
	14 No paper feed from third paper feeder	Cassette feed switch 2 (CFSW2) does not turn on within the specified time of cassette paper feed clutch 3 (CPFCL3) turning on and cannot be detected at the same timing even after retry.	1953 ms
	15 Misfeed in vertical paper conveying section 1	The registration switch (RSW) does not turn on within specified time of cassette feed switch 1 (CFSW1) turning on.	2243 ms
		Cassette feed switch 1 (CFSW1) does not turn off within specified time of cassette feed switch 2 (CFSW2) turning on.	1916 ms
		Cassette feed switch 1 (CFSW1) does not turn off within specified time of cassette feed switch 2 (CFSW2) turning off.	1916 ms
		Left cover is opened in prior to the cassette feed switch 1 (CFSW1) is turned off.	-
	16 Misfeed in vertical paper conveying section 2	Cassette feed switch 1 (CFSW1) does not turn on within specified time of cassette feed switch 2 (CFSW2) turning on.	1916 ms
		Left cover is opened in prior to the cassette feed switch 2 (CFSW2) is turned off.	-
	20 Multiple sheets in MP tray	The registration switch (RSW) does not turn off within specified time of its turning on.	5907 ms
		The registration switch (RSW) does not turn off within the specified time of paper MP solenoid (MPSOL) turning on.	1570 ms

Section	Description	Conditions	Specified time
Paper feed section	21 Multiple sheets in cassette	The registration switch (RSW) does not turn off within specified time of its turning on.	5907 ms
		The registration switch (RSW) does not turn off within the specified time of paper feed clutch (PFCL) turning on.	1327 ms
	22 Multiple sheets in first paper feeder	The registration switch (RSW) does not turn off within specified time of its turning on.	5907 ms
		The registration switch (RSW) does not turn off within the specified time of cassette paper feed clutch 1 (CPFCL1) turning on.	2290 ms
	23 Multiple sheets in second paper feeder	Cassette feed switch 1 (CFSW1) does not turn off within specified time of its turning on.	5907 ms
		Cassette feed switch 1 (CFSW1) does not turn off within the specified time of cassette paper feed clutch 2 (CPFCL2) turning on.	1953 ms
	24 Multiple sheets in third paper feeder	Cassette feed switch 2 (CFSW2) does not turn off within specified time of its turning on.	5907 ms
		Cassette feed switch 2 (CFSW2) does not turn off within the specified time of cassette paper feed clutch 3 (CPFCL3) turning on.	1953 ms
Paper conveying section	30 Misfeed in registration/transfer section	A message, which is not the one indicating start of secondary paper feed, is received when the machine waits for start of secondary paper feed.	-
		The registration switch (RSW) does not turn off within specified time of the cassette feed switch 1 (CFSW1) turning on (paper feed from second paper feeder).	2523 ms
		The registration switch (RSW) does not turn off within specified time of the cassette feed switch 1 (CFSW1) turning on (paper feed from third paper feeder).	2243 ms
		The registration switch (RSW) does not turn off within specified time of the cassette feed switch 1 (CFSW1) turning off.	2243 ms
		The registration switch (RSW) does not turn off within specified time of the duplex paper conveying switch (DUPPCSW) turning on.	1589 ms
Fuser section	40 Misfeed in fuser section (MP tray)	The eject switch (ESW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
	41 Misfeed in fuser section (cassette)	The eject switch (ESW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
	42 Misfeed in fuser section (first paper feeder)	The eject switch (ESW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
	43 Misfeed in fuser section (second paper feeder)	The eject switch (ESW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms

Section	Description	Conditions	Specified time
Fuser section	44 Misfeed in fuser section (third paper feeder)	The eject switch (ESW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
	45 Misfeed in fuser section (duplex section)	The eject switch (ESW) does not turn on within specified time of the registration clutch (RCL) turning on.	2766 ms
Eject section	50 Misfeed in eject section	The eject switch (ESW) does not turn off within specified time of the registration switch (RSW) turning off.	2766 ms
		The eject switch (ESW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
Feedshift section	52 Misfeed in feedshift section (MP tray)	The job eject switch (JBESW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	2056 ms
		The feedshift switch (FSSW) does not turn on within specified time of paper switchback operation.	1364 ms
		The feedshift switch (FSSW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn off within specified time of the its turning on.	5907 ms
	53 Misfeed in feedshift section (cassette)	The job eject switch (JBESW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	2056 ms
		The feedshift switch (FSSW) does not turn on within specified time of paper switchback operation.	1364 ms
		The feedshift switch (FSSW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn off within specified time of the its turning on.	5907 ms
	54 Misfeed in feedshift section (first paper feeder)	The job eject switch (JBESW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	2056 ms
		The feedshift switch (FSSW) does not turn on within specified time of paper switchback operation.	1364 ms
		The feedshift switch (FSSW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn off within specified time of the its turning on.	5907 ms
	55 Misfeed in feedshift section (second paper feeder)	The job eject switch (JBESW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	2056 ms
		The feedshift switch (FSSW) does not turn on within specified time of paper switchback operation.	1364 ms
		The feedshift switch (FSSW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn off within specified time of the its turning on.	5907 ms

Section	Description	Conditions	Specified time
Feedshift section	56 Misfeed in feedshift section (third paper feeder)	The job eject switch (JBESW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	2056 ms
		The feedshift switch (FSSW) does not turn on within specified time of paper switchback operation.	1364 ms
		The feedshift switch (FSSW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn off within specified time of the its turning on.	5907 ms
	57 Misfeed in feedshift section (duplex section)	The job eject switch (JBESW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	2056 ms
		The feedshift switch (FSSW) does not turn on within specified time of paper switchback operation.	1364 ms
		The feedshift switch (FSSW) does not turn off within specified time of the registration clutch (RCL) turning on.	2766 ms
		The feedshift switch (FSSW) does not turn off within specified time of the its turning on.	5907 ms
Duplex section	60 Misfeed in duplex paper conveying section	The duplex paper conveying switch (DUPPCSW) does not turn off within specified time of the feedshift switch (FSSW) turning on.	3037 ms
		The duplex paper conveying switch (DUPPCSW) does not turn on within specified time of the feedshift switch (FSSW) turning on.	3037 ms
		The duplex paper conveying switch (DUPPCSW) does not turn off within specified time of the feedshift switch (FSSW) turning off.	3037 ms
	61 Misfeed in duplex eject section	The registration switch (RSW) does not turn on within specified time of the duplex paper conveying switch (DUPPCSW) turning on.	1589 ms
		The registration switch (RSW) does not turn off within specified time of the duplex paper conveying switch (DUPPCSW) turning off.	1589 ms
Document processor	70 No original feed	During primary feed of the second original in the simplex or duplex mode, even if retry operation is performed five times, primary original feed is not performed.	-
	71 An original jam in the original conveying section 1	During the secondary original feed in the simplex mode, DP timing switch (DPTSW) does not turn off within specified time of the original conveying motor (OCM) turning on.	9900 pulses
	72 An original size error jam	DP timing switch (DPTSW) turns off within the specified time of period of the original conveying motor (OCM) turning on in the simplex or duplex mode.	1145 pulses
	73 An original jam in the original conveying section 2	During original conveying in the duplex mode, DP timing switch (DPTSW) does not turn off within specified time of the original conveying motor (OCM) turning on.	9900 pulses
	74 An original jam in the original conveying section 3	During secondary original feed in the duplex mode, DP timing switch (DPTSW) does not turn on within specified time of the original switchback motor (OSBM) turning on.	2300 pulses

Section	Description	Conditions	Specified time
Document processor	75 An original jam in the original switchback section	During original switchback in the duplex mode, the original switchback switch (OSBSW) does not turn on within specified time of the original conveying motor (OCM) turning on.	10700 pulses
	78 Document processor cover open	The document processor or document processor top cover is opened during original feeding. The original set switch (OSSW) or original size length switch (OSLSW) turns on when starting the original paper feed.	-

(3) Paper misfeeds

Problem	Causes/check procedures	Corrective measures
(1) A paper jam in the paper feed, conveying or eject section is indicated as soon as the main power switch is turned on.	A piece of paper torn from copy paper is caught around registration switch, eject switch or feedshift switch.	Check visually and remove it, if any.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Registration switch, eject switch, feedshift switch
(2) A paper jam in the paper feed section is indicated during copying (no paper feed from MP tray). Jam code 10	Paper is extremely curled.	Change the paper.
	Check if the MP paper feed pulley is deformed.	Check visually and replace any deformed pulley.
	Broken registration switch actuator.	Check visually and replace switch.
	Defective registration switch.	Run maintenance item U031 and turn registration switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the MP solenoid malfunctions.	Run maintenance item U032 and select the MP solenoid to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the MP solenoid.	Check (see page 1-4-28).
(3) A paper jam in the paper feed section is indicated during copying (no paper feed from cassette). Jam code 11	Paper is extremely curled.	Change the paper.
	Check if the paper feed pulley, separation pulley or forwarding pulley is deformed.	Check visually and replace any deformed pulley.
	Broken registration switch actuator.	Check visually and replace switch.
	Defective registration switch.	Run maintenance item U031 and turn registration switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the paper feed clutch malfunctions.	Run maintenance item U032 and select the paper feed clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the paper feed clutch.	Check (see page 1-4-28).
(4) A paper jam in the paper feed section is indicated during copying (no paper feed from first paper feeder). Jam code 12	Paper is extremely curled.	Change the paper.
	Check if the paper feed pulley, separation pulley or forwarding pulley is deformed.	Check visually and replace any deformed pulley.
	Broken registration switch actuator.	Check visually and replace switch.
	Defective registration switch.	Run maintenance item U031 and turn registration switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the cassette paper feed clutch 1 malfunctions.	Run maintenance item U032 and select the cassette paper feed clutch 1 to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the cassette paper feed clutch 1.	Check (see page 1-4-28).

Problem	Causes/check procedures	Corrective measures
(5) A paper jam in the paper feed section is indicated during copying (no paper feed from second paper feeder). Jam code 13	Paper is extremely curled.	Change the paper.
	Check if the paper feed pulley, separation pulley or forwarding pulley is deformed.	Check visually and replace any deformed pulley.
	Broken cassette feed switch 1 actuator.	Check visually and replace switch.
	Defective cassette feed switch 1.	Run maintenance item U031 and turn cassette feed switch 1 on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the cassette paper feed clutch 2 malfunctions.	Run maintenance item U032 and select the cassette paper feed clutch 2 to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the cassette paper feed clutch 2.	Check (see service manual of paper feeder).
(6) A paper jam in the paper feed section is indicated during copying (no paper feed from third paper feeder). Jam code 14	Paper is extremely curled.	Change the paper.
	Check if the paper feed pulley, separation pulley or forwarding pulley is deformed.	Check visually and replace any deformed pulley.
	Broken cassette feed switch 2 actuator.	Check visually and replace switch.
	Defective cassette feed switch 2.	Run maintenance item U031 and turn cassette feed switch 2 on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the cassette paper feed clutch 3 malfunctions.	Run maintenance item U032 and select the cassette paper feed clutch 3 to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the cassette paper feed clutch 3.	Check (see service manual of paper feeder).
(7) A paper jam in the paper feed section is indicated during copying (misfeed in vertical paper conveying section 1). Jam code 15	Broken registration switch, cassette feed switch 1 or 2 actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Registration switch, cassette feed switch 1, 2
	Check if the paper feed clutch, cassette paper feed clutch 1, 2 or 3 malfunctions.	Run maintenance item U032 and select the clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the paper feed clutch, cassette paper feed clutch 1, 2 or 3.	Check (see service manual of paper feeder).
	Defective feed pulleys or feed rollers.	Check visually and replace.

Problem	Causes/check procedures	Corrective measures
(8) A paper jam in the paper feed section is indicated during copying (misfeed in vertical paper conveying section 2). Jam code 16	Broken cassette feed switch 1 or 2 actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Cassette feed switch 1, 2
	Check if the paper feed clutch, cassette paper feed clutch 1 or 2 malfunctions.	Run maintenance item U032 and select the clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the paper feed clutch, cassette paper feed clutch 1 or 2.	Check (see service manual of paper feeder).
	Defective feed pulleys or feed rollers.	Check visually and replace.
(9) A paper jam in the paper feed section is indicated during copying (multiple sheets in MP tray). Jam code 20	Deformed guides along the paper conveying path.	Check visually and replace.
	Broken registration switch actuator.	Check visually and replace switch.
	Defective registration switch.	Run maintenance item U031 and turn registration switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the MP solenoid malfunctions.	Run maintenance item U032 and select the MP solenoid to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the MP solenoid.	Check (see page 1-4-28).
	Check if the right and left registration rollers contact each other.	Check visually and replace.
(10) A paper jam in the paper feed section is indicated during copying (multiple sheets in cassette). Jam code 21	Deformed guides along the paper conveying path.	Check visually and replace.
	Broken registration switch actuator.	Check visually and replace switch.
	Defective registration switch.	Run maintenance item U031 and turn registration switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the paper feed clutch malfunctions.	Run maintenance item U032 and select the paper feed clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the paper feed clutch.	Check (see page 1-4-28).
	Check if the right and left registration rollers contact each other.	Check visually and replace.

Problem	Causes/check procedures	Corrective measures
(11) A paper jam in the paper feed section is indicated during copying (multiple sheets in first paper feeder). Jam code 22	Deformed guides along the paper conveying path.	Check visually and replace.
	Broken registration switch actuator.	Check visually and replace switch.
	Defective registration switch.	Run maintenance item U031 and turn registration switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the cassette paper feed clutch 1 malfunctions.	Run maintenance item U032 and select the cassette paper feed clutch 1 to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the cassette paper feed clutch 1.	Check (see page 1-4-28).
	Check if the right and left registration rollers contact each other.	Check visually and replace.
(12) A paper jam in the paper feed section is indicated during copying (multiple sheets in second paper feeder). Jam code 23	Deformed guides along the paper conveying path.	Check visually and replace.
	Broken cassette feed switch 1 actuator.	Check visually and replace switch.
	Defective cassette feed switch 1.	Run maintenance item U031 and turn cassette feed switch 1 on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the cassette paper feed clutch 2 malfunctions.	Run maintenance item U032 and select the cassette paper feed clutch 2 to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the cassette paper feed clutch 2.	Check (see page 1-4-28).
(13) A paper jam in the paper feed section is indicated during copying (multiple sheets in third paper feeder). Jam code 24	Deformed guides along the paper conveying path.	Check visually and replace.
	Broken cassette feed switch 2 actuator.	Check visually and replace switch.
	Defective cassette feed switch 2.	Run maintenance item U031 and turn cassette feed switch 2 on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the cassette paper feed clutch 3 malfunctions.	Run maintenance item U032 and select the cassette paper feed clutch 3 to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the cassette paper feed clutch 3.	Check (see page 1-4-28).

Problem	Causes/check procedures	Corrective measures
(14) A paper jam in the paper conveying section is indicated during copying (misfeed in registration/transfer section). Jam code 30	Deformed guides along the paper conveying path.	Check visually and replace.
	Broken registration switch, cassette feed switch 1 or duplex paper conveying switch actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Registration switch, cassette feed switch 1, duplex paper conveying switch
(15) A paper jam in the fuser section is indicated during copying (misfeed in fuser section). Jam codes 40, 41, 42, 43, 44 and 45	Check if the front fuser guide is deformed.	Check visually and replace.
	Check if the press roller is extremely dirty or deformed.	Clean or replace if necessary.
	Check if the heat roller separation claws are dirty or deformed.	Clean or replace if necessary.
	Check if the heat roller and its separation claws contact each other.	Check visually and replace.
	Broken eject switch or feedshift switch actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Eject switch, feedshift switch
	Check if the registration clutch malfunctions.	Run maintenance item U032 and select the registration clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the registration clutch.	Check (see page 1-4-28).
(16) A paper jam in the eject section is indicated during copying (misfeed in eject section). Jam code 50	Broken eject switch or registration switch actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Eject switch, registration switch
	Check if the registration clutch malfunctions.	Run maintenance item U032 and select the registration clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the registration clutch.	Check (see page 1-4-28).

Problem	Causes/check procedures	Corrective measures
(17) A paper jam in the feedshift section is indicated during copying (misfeed in feedshift section). Jam code 52, 53, 54, 55, 56, 57	Broken feedshift switch, registration switch or job eject switch actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Feedshift switch, registration switch, job eject switch
	Check if the eject motor malfunctions.	Run maintenance item U030 and select the eject motor to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the eject motor.	Check (see page 1-4-28).
(18) A paper jam in the duplex section is indicated during copying (misfeed in duplex paper conveying section). Jam code 60	Broken feedshift switch or duplex paper conveying switch actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Feedshift switch, duplex paper conveying switch
	Check if the eject motor malfunctions.	Run maintenance item U030 and select the eject motor to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the eject motor.	Check (see page 1-4-28).
	Check if the duplex feed clutch malfunctions.	Run maintenance item U032 and select the duplex feed clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the duplex feed clutch.	Check (see page 1-4-28).
(19) A paper jam in the duplex section is indicated during copying (misfeed in duplex eject section). Jam code 61	Broken duplex paper conveying switch or registration switch actuator.	Check visually and replace switch.
	Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Duplex paper conveying switch, registration switch
	Check if the duplex feed clutch malfunctions.	Run maintenance item U032 and select the duplex feed clutch to be turned on and off. Check the status and remedy if necessary.
	Electrical problem with the duplex feed clutch.	Check (see page 1-4-28).
(20) An original jams in DP is indicated during copying (no original feed). Jam code 70	Defective original set switch.	Run maintenance item U244 and turn the original set switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the original feed motor malfunctions.	Run maintenance item U243 and select the original feed motor to be turned on and off. Check the status and remedy if necessary.
	Check if the DP paper feed pulley or DP separation pad is deformed.	Check visually and replace.

Problem	Causes/check procedures	Corrective measures
(21) An original jams in DP is indicated during copying (an original jam in the original conveying section 1). Jam code 71	Defective DP timing switch.	Run maintenance item U244 and turn the DP timing switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the original conveying motor malfunctions.	Run maintenance item U243 and select the original conveying motor to be turned on and off. Check the status and remedy if necessary.
(22) An original jams in DP is indicated during copying (an original size error jam). Jam code 72	Defective DP timing switch.	Run maintenance item U244 and turn the DP timing switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the original conveying motor malfunctions.	Run maintenance item U243 and select the original conveying motor to be turned on and off. Check the status and remedy if necessary.
(23) An original jams in DP is indicated during copying (an original jam in the original conveying section 2). Jam code 73	Defective DP timing switch.	Run maintenance item U244 and turn the DP timing switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the original conveying motor malfunctions.	Run maintenance item U243 and select the original conveying motor to be turned on and off. Check the status and remedy if necessary.
(24) An original jams in DP is indicated during copying (an original jam in the original conveying section 3). Jam code 74	Defective DP timing switch.	Run maintenance item U244 and turn the DP timing switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the original conveying motor malfunctions.	Run maintenance item U243 and select the original conveying motor to be turned on and off. Check the status and remedy if necessary.
(25) An original jams in DP is indicated during copying (an original jam in the original switchback section). Jam code 75	Defective DP timing switch.	Run maintenance item U244 and turn the DP timing switch on and off manually. Replace the switch if indication of the corresponding switch is not light.
	Check if the original switchback motor malfunctions.	Run maintenance item U243 and select the original switchback motor to be turned on and off. Check the status and remedy if necessary.

1-4-2 Self-diagnosis

(1) Self-diagnostic function

This unit is equipped with a self-diagnostic function. When a problem is detected, copying is disabled and the problem displayed as a code consisting of C followed by a number, indicating the nature of the problem.

A message is also displayed requesting the user to call for service.

After removing the problem, the self-diagnostic function can be reset by turning the main power switch off and back on.

List of system errors

When an unexpected error is detected for some reason, a system error (A call error) will be indicated. After a system error (A call error) is indicated, the error can be cleared by turning the main power switch off and then on. If a system error (A call error) occurs frequently, a fault may have occurred. Check the details of the C call to take proper measures.

System error	Contents
0410	Document processor communication problem
0420	First paper feeder communication problem
0500	Second paper feeder communication problem
0510	Third paper feeder communication problem

Table 1-4-1

Measures against the service codes detecting fuser problems

If one of the following service codes is detected, take actions to clear the cause of the trouble and perform maintenance item U163 to reset the service code.

Code	Contents
C6000	Fuser heater break
C6020	Abnormally high fuser thermistor center temperature
C6050	Abnormally low fuser thermistor center temperature
C6400	Zero-cross signal error

(2) Self diagnostic codes

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
C0100	Backup memory (EEPROM) device problem (main) Reading from or writing to EEPROM cannot be performed.	Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C0110	Backup memory data problem (main) Data in the specified area of the backup memory does not match the specified values.	Data damage of EEPROM.	Contact the Service Administrative Division.
C0150	Backup memory device problem (engine EEPROM) Reading from or writing to EEPROM cannot be performed.	Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
		Device damage of EEPROM.	Contact the Service Administrative Division.
C0160	Backup memory data problem (engine EEPROM) Reading data from EEPROM is abnormal.	Data damage of EEPROM.	Contact the Service Administrative Division.
C0170	Copy counts problem When the power is turned on, the total count and the scan count are abnormal both on the main and engine.	Data damage of EEPROM.	Contact the Service Administrative Division.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C0180	Machine number mismatch Machine number of main and engine does not match.	Data damage of EEPROM.	Contact the Service Administrative Division.
C0210	Communication problem between the main and engine When the power is turned on, the machine does not detect the low level of SBSY and the high level of SDIR for 10 s.	Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C0240	Printer PWB communication problem The printer PWB does not respond 120 s after the power is turned on.	Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
A0410	Document processor communication problem Communication fails five times successively.	Document processor installed incorrectly.	Check the installation state of the document processor and adjust it if it is not properly installed.
		Defective PWB.	Replace the main/engine PWB or DP driver PWB and check for correct operation.
A0420	First paper feeder communication problem Communication fails five times successively.	First paper feeder installed incorrectly.	Check the installation state of the first paper feeder and adjust it if it is not properly installed.
		Defective PWB.	Replace the main/engine PWB or cassette main PWB and check for correct operation.

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
A0500	Second paper feeder communication problem Communication fails five times successively.	Second paper feeder installed incorrectly.	Check the installation state of the second paper feeder and adjust it if it is not properly installed.
		Defective PWB.	Replace the main/engine PWB or cassette main PWB and check for correct operation.
A0510	Third paper feeder communication problem Communication fails five times successively.	Third paper feeder installed incorrectly.	Check the installation state of the third paper feeder and adjust it if it is not properly installed.
		Defective PWB.	Replace the main/engine PWB or cassette main PWB and check for correct operation.
C0610	Bitmap (DIMM) problem There is a problem with the data or address bus of the bitmap DRAM.	Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
		DIMM installed incorrectly.	Check if the DIMM is inserted into the socket on the main/engine PWB correctly.
		Defective DIMM.	Replace the DIMM and check for correct operation.
C0620	Memory input interface problem Reading-in of an image does not complete within 10 s of the start of image transmission.	Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C0630	DMA problem DMA transmission of compressed, decompressed, rotated, relocated or blanked-out image data does not complete within the specified period of time.	Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C0800	Image processing problem JAM05 is detected twice.	Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C2000	Drive motor problem A stable state does not continue for 1 s from 1 s after the drive motor is activated.	Poor contact in the connector terminals.	Check the connection of connector YC6 on the main/engine PWB and the connector on the drive motor, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
		Defective drive motor.	Replace the drive motor.

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
C2200	Drum motor problem A stable state does not continue for 1 s from 1 s after the drum motor is activated.	Poor contact in the connector terminals.	Check the connection of connector YC6 on the main/engine PWB and the connector on the drum motor, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
		Defective drum motor.	Replace the drum motor.
C3100	Scanner carriage problem The home position is not correct when the power is turned on or at the start of copying using the table.	Poor contact in the connector terminals.	Check the connection of connector YC5 on the main/engine PWB and the connector on the home position switch, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective home position switch.	Replace the home position switch.
		Defective scanner motor.	Replace the scanner motor.
		The mirror frame, exposure lamp, or scanner wire is defective.	Check if the mirror frames and exposure lamp are on the rail. And check the scanner wire winds correctly.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C3200	Exposure lamp problem Non-lighting of the exposure lamp is detected at the beginning of copying.	Poor contact in the connector terminals.	Check the connection of connector YC16 on the main/engine PWB and the connector on the inverter PWB, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective exposure lamp.	Replace the exposure lamp.
		Incorrect shading position.	Adjust the position of the contact glass (shading plate). If the problem still occurs, replace the home position switch.
		Defective PWB.	Replace the main/engine PWB or inverter PWB and check for correct operation.
C3300	AGC problem After AGC, correct input is not obtained at CCD.	Poor contact in the connector terminals.	Check the connection of connector YC27 on the main/engine PWB and the connector on the CCD PWB, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective exposure lamp.	Replace the exposure lamp.
		Defective PWB.	Replace the main/engine PWB or CCD PWB and check for correct operation.

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
C4000	Polygon motor synchronization problem The polygon motor does not reach the stable speed within 20 s of the START signal turning on.	Poor contact in the connector terminals.	Check the connection of connector YC3 on the main/engine PWB and laser scanner unit, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective polygon motor.	Replace the laser scanner unit.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C4010	Polygon motor steady-state problem Stable OFF is detected for 5 s continuously after polygon motor stability.	Poor contact in the connector terminals.	Check the connection of connector YC3 on the main/engine PWB and laser scanner unit, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective polygon motor.	Replace the laser scanner unit.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C4200	BD steady-state problem ASIC detects a BD error for 600 ms after the polygon motor rotation has been stabilized.	Poor contact in the connector terminals.	Check the connection of connector YC3 on the main/engine PWB and laser scanner unit, and the continuity across the connector terminals. Repair or replace if necessary.
		Defective laser scanner unit.	Replace the laser scanner unit.
		Defective main/engine PWB.	Replace the main/engine PWB and check for correct operation.
C6000	Fuser heater break The temperature does not reach 70 °C/ 158°F in 15 s before secondary stabilization. Temperature rise of 1°C/1.8°F does not occur in 5 s before secondary stabilization (except during printing).	Poor contact in the fuser thermistor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Fuser thermistor installed incorrectly.	Check and reinstall if necessary.
		Fuser thermostat triggered.	Check for continuity. If none, replace the fuser thermostat.
		Fuser heater installed incorrectly.	Check and reinstall if necessary.
		Broken fuser heater wire.	Check for continuity. If none, replace the fuser heater.
C6020	Abnormally high fuser thermistor temperature Fuser thermistor is detected 230°C/ 446°F or more for 40 ms.	Shorted thermistor.	Measure the resistance. If it is 0 Ω, replace the thermistor.
		Broken heater control circuit on the power source PWB.	Replace the power source PWB and check for correct operation.

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
C6050	Abnormally low fuser thermistor temperature Fuser thermistor remains below 90°C/ 194°F for 1 s.	Poor contact in the fuser thermistor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Broken fuser thermistor wire.	Measure the resistance. If it is $\infty \Omega$, replace the fixing thermistor.
		Fuser thermistor installed incorrectly.	Check and reinstall if necessary.
		Fuser thermostat triggered.	Check for continuity. If none, replace the fuser thermostat.
		Fuser heater installed incorrectly.	Check and reinstall if necessary.
		Broken fuser heater wire.	Check for continuity. If none, replace the fuser heater.
C6400	Zero-cross signal error Interrupt of the zero-cross signal does not occur more than 1 s.	Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective power source PWB.	Check if the zero-crossing signal is output from YC2-2 on the power source PWB. If not, replace the power source PWB.
		Defective main/engine PWB.	Replace the main/engine PWB if C6400 is detected while YC2-2 on the power source PWB outputs the zero-crossing signal.
C7800	Broken external thermistor wire The thermistor output value is 0.5 V or less.	Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective humidity sensor.	Replace the cassette PWB and check for correct operation.
C7810	Short-circuited external thermistor wire The thermistor output value is 4.5 V or more.	Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective humidity sensor.	Replace the cassette PWB and check for correct operation.

1-4-3 Image formation problems

(1) No image appears
(entirely white).



See page 1-4-22.

(2) No image appears
(entirely black).



See page 1-4-22.

(3) Image is too light.



See page 1-4-23.

(4) Background is visible.



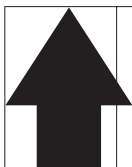
See page 1-4-23.

(5) A white line
appears longitudinally.



See page 1-4-23.

(6) A black line
appears longitudinally.



See page 1-4-24.

(7) A black line
appears laterally.



See page 1-4-24.

(8) One side of the
copy image is
darker than the
other.



See page 1-4-24.

(9) Black dots appear
on the image.



See page 1-4-24.

(10) Image is blurred.



See page 1-4-25.

(11) The leading edge
of the image is
consistently mis-
aligned with the
original.



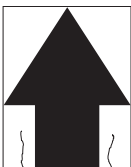
See page 1-4-25.

(12) The leading edge
of the image is
sporadically mis-
aligned with the
original.



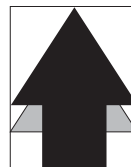
See page 1-4-25.

(13) Paper creases.



See page 1-4-25.

(14) Offset occurs.



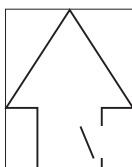
See page 1-4-26.

(15) Image is partly
missing.



See page 1-4-26.

(16) Fusing is poor.



See page 1-4-26.

(17) Image is out of
focus.



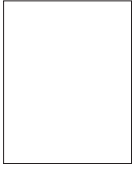
See page 1-4-26.

(18) Image center
does not align with
the original center.




See page 1-4-27.


(1) No image appears (entirely white).

Copy example	Causes		Check procedures/corrective measures
	No transfer charging.	The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective high voltage PWB.	Check if transfer charging takes place when CN1-4 on the high voltage PWB goes low while maintenance item U101 is run. If not, replace the high voltage PWB.
		Defective main/engine PWB.	Check if YC8-4 on the main/engine PWB goes low when maintenance item U101 is run. If not, replace the engine PWB.
	No LSU laser is output.	Defective laser scanner unit.	Replace the laser scanner unit (see page 1-5-28).
		Defective main/engine PWB.	Check if YC35-5 on the main/engine PWB goes low when maintenance item U100 is run. If not, replace the main/engine PWB.
	No developing bias output.	The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective high voltage PWB.	Check if developing bias is output when CN1-9 on the high voltage PWB goes low while maintenance item U101 is run. If not, replace the high voltage PWB.
		Defective engine PWB.	Check if YC8-9 on the engine PWB goes low when maintenance item U101 is run. If not, replace the engine PWB.

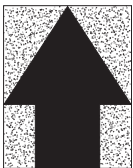
(2) No image appears (entirely black).

Copy example	Causes		Check procedures/corrective measures
	No main charging.	Broken main charger wire.	Replace the main charger unit (see page 1-5-36).
		Leaking main charger housing.	Clean the main charger wire and grid.
		The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective high voltage PWB.	Check if main charging takes place when CN1-7 on the high voltage PWB goes low while maintenance item U100 is run. If not, replace the high voltage PWB.
		Defective main/engine PWB.	Check if YC8-7 on the main/engine PWB goes low when maintenance item U100 is run. If not, replace the main/engine PWB.
	Exposure lamp fails to light.	Poor contact in the exposure lamp connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective inverter PWB.	Check if the exposure lamp lights when YC1-3 on the inverter PWB goes low while maintenance item U061 is run. If not, replace the inverter PWB.
		Defective main/engine PWB.	Check if YC16-4 on the main/engine PWB goes low when maintenance item U061 is run. If not, replace the main/engine PWB.


(3) Image is too light.

Copy example	Causes		Check procedures/corrective measures
	Insufficient toner.		If the display shows the message requesting toner replenishment, replace the container.
	Defective transfer charging output.	The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
		Defective high voltage PWB.	Check if transfer charging takes place when CN1-4 on the high voltage PWB goes low while maintenance item U101 is run. If not, replace the high voltage PWB.
		Defective main/engine PWB.	Check if YC8-4 on the main/engine PWB goes low when maintenance item U101 is run. If not, replace the main/engine PWB.
	Dirty main charger wire.		Clean the wire or, if it is extremely dirty, replace the main charger unit (see page 1-5-36).
	Dirty main charger grid.		Clean the grid or, if it is extremely dirty, replace the main charger unit (see page 1-5-36).

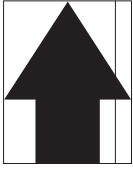
(4) Background is visible.

Copy example	Causes		Check procedures/corrective measures
	The developing bias voltage is not properly.		Replace the high voltage PWB and check for correct operation.
	Dirty main charger wire.		Clean the wire or, if it is extremely dirty, replace the main charger unit (see page 1-5-36).


(5) A white line appears longitudinally.

Copy example	Causes		Check procedures/corrective measures
	Dirty main charger wire.		Clean the wire or, if it is extremely dirty, replace the main charger unit (see page 1-5-36).
	Foreign matter in the developing unit.		Check if the magnetic brush is formed uniformly. Replace the developing unit if any foreign matter (see page 1-5-37).
	Dirty shading plate.		Clean the shading plate.


(6) A black line appears longitudinally.

Copy example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty or flawed drum.	Clean the drum or, if it is flawed, replace the drum unit (see page 1-5-34).
	Dirty scanner mirror.	Clean the scanner mirror.
	Dirty main charger wire.	Clean the wire or, if it is extremely dirty, replace the main charger unit (see page 1-5-36).


(7) A black line appears laterally.

Copy example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty or flawed drum.	Clean the drum or, if it is flawed, replace the drum unit (see page 1-5-34).
	Dirty developing section.	Clean any part contaminated with toner in the developing section.
	Leaking main charger housing.	Clean the main charger wire and grid.
	Leaking separation electrode.	Clean the separation electrode.

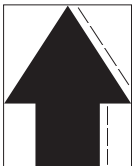
(8) One side of the copy image is darker than the other.

Copy example	Causes	Check procedures/corrective measures
	Dirty main charger wire.	Clean the wire or, if it is extremely dirty, replace the main charger unit (see page 1-5-36).
	Defective exposure lamp.	Check if the exposure lamp light is distributed evenly. If not, replace the exposure lamp (see page 1-5-17).

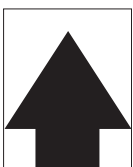
(9) Black dots appear on the image.

Copy example	Causes	Check procedures/corrective measures
	Dirty contact glass.	Clean the contact glass.
	Dirty or flawed drum.	Clean the drum or, if it is flawed, replace the drum unit (see page 1-5-34).
	Deformed or worn cleaning blade.	Replace the drum unit (see page 1-5-34).
	Dirty drum separation claws.	Clean the drum separation claws.
	Dirty the heat roller separation claws.	Clean the heat roller separation claws.

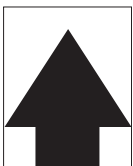
(10) Image is blurred.

Copy example	Causes	Check procedures/corrective measures
	Scanner moves erratically.	Check if there is any foreign matter on the front and rear scanner rails. If any, remove it.
	Deformed press roller.	Replace the press roller (see page 1-5-42).
	Paper conveying section drive problem.	Check the gears and belts and, if necessary, grease them.

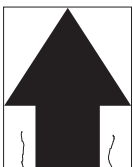
(11) The leading edge of the image is consistently misaligned with the original.

Copy example	Causes	Check procedures/corrective measures
	Misadjusted leading edge registration.	Run maintenance mode U034 to readjust the leading edge registration (see page 1-3-12).
	Misadjusted scanner leading edge registration.	Run maintenance mode U066 to readjust the scanner leading edge registration (see page 1-3-20).

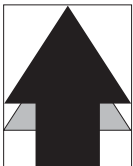
(12) The leading edge of the image is sporadically misaligned with the original.

Copy example	Causes	Check procedures/corrective measures
	Paper feed clutch, MP solenoid or registration clutch installed or operating incorrectly.	Check the installation position and operation of each clutch or solenoid. If any of them operates incorrectly, replace it.


(13) Paper creases.

Copy example	Causes	Check procedures/corrective measures
	Paper curled.	Check the paper storage conditions.
	Paper damp.	Check the paper storage conditions.
	Defective pressure springs.	Replace the pressure springs.
	Defective separation.	Check the drum separation claws and heat roller separation claws.

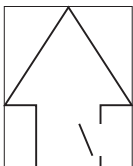
(14) Offset occurs.

Copy example	Causes	Check procedures/corrective measures
	Defective cleaning blade.	Replace the drum unit (see page 1-5-34).
	Defective fuser unit.	Check the heat roller and press roller.
	Wrong types of paper.	Check if the paper meets specifications. Replace paper.


(15) Image is partly missing.

Copy example	Causes	Check procedures/corrective measures
	Paper damp.	Check the paper storage conditions.
	Paper creased.	Change the paper.
	Dirty or flawed drum.	Clean the drum or, if it is flawed, replace the drum unit (see page 1-5-34).
	Dirty transfer roller.	Clean the transfer roller.

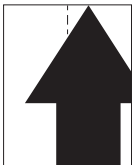
(16) Fusing is poor.

Copy example	Causes	Check procedures/corrective measures
	Wrong types of paper.	Check if the paper meets specifications. Replace paper.
	Defective pressure springs.	Replace the pressure springs.
	Flawed press roller.	Replace the press roller (see page 1-5-42).
	Flawed fuser heater.	Replace the fuser heaters (see page 1-5-44).

(17) Image is out of focus.

Copy example	Causes	Check procedures/corrective measures
	Defective image scanning unit.	Replace the image scanning unit (see page 1-5-26).
	Drum condensation.	Clean the drum.

(18) Image center does not align with the original center.

Copy example	Causes	Check procedures/corrective measures
	Misadjusted image center line.	Run maintenance item U034 to readjust the center line of image printing (see page 1-3-13).
	Misadjusted scanner center line.	Run maintenance item U067 to readjust the scanner leading edge registration (see page 1-3-21).
	Original is not placed correctly.	Place the original correctly.

1-4-4 Electric problems

Troubleshooting to each failure must be in the order of the numbered symptoms.

Problem	Causes	Check procedures/corrective measures
(1) The machine does not operate when the main power switch is turned on.	1. The power cord is not plugged in properly.	Check the contact between the power plug and the outlet.
	2. No electricity at the power outlet.	Measure the input voltage.
	3. Broken power cord.	Check for continuity. If none, replace the cord.
	4. Defective main power switch.	Check for continuity across the contacts. If none, replace the main power switch.
	5. Defective power source PWB.	With AC present, check for 24 V DC at YC1-2, YC1-3 and YC1-4 on the power source PWB. If none, replace the power source PWB.
(2) The eject motor does not operate.	1. Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective drive transmission system.	Check if the rollers and gears rotate smoothly. If not, grease the bushings and gears. Check for broken gears and replace if any.
	3. Defective eject motor.	Run maintenance item U030 and check if the eject motor operates. If not, replace the eject motor.
	4. Defective main/engine PWB.	Run maintenance item U030 and check if the eject motor operates. If not, replace the main/engine PWB.
(3) The scanner motor or cooling fan motor 1, 2 does not operate.	1. Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Broken motor coil.	Check for continuity across the coil. If none, replace the motor.
(4) The paper feed clutch, registration clutch or duplex feed clutch does not operate.	1. Broken clutch coil.	Check for continuity across the coil. If none, replace the clutch.
	2. Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	3. Defective cassette PWB.	Run maintenance item U032 and check if following terminals on the cassette PWB goes low. If not, replace the cassette PWB. Paper feed clutch: YC7-2 on the cassette PWB Registration clutch: YC6-2 on the cassette PWB Duplex feed clutch: YC5-6 on the cassette PWB
	4. Defective main/engine PWB.	Run maintenance item U032 and check if following terminals on the main/engine PWB goes low. If not, replace the main/engine PWB. Paper feed clutch: YC7-17 on the main/engine PWB Registration clutch: YC7-18 on the main/engine PWB Duplex feed clutch: YC7-12 on the main/engine PWB

Problem	Causes	Check procedures/corrective measures
(5) The MP solenoid does not operate.	1. Broken solenoid coil.	Check for continuity across the coil. If none, replace the solenoid.
	2. Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	3. Defective cassette PWB.	Run maintenance item U032 and check if following terminals on the cassette PWB goes low. If not, replace the cassette PWB. MP solenoid: YC8-2 on the cassette PWB
	4. Defective main/engine PWB.	Run maintenance item U032 and check if following terminals on the main/engine PWB goes low. If not, replace the main/engine PWB. MP solenoid: YC7-16 on the main/engine PWB
(6) The cleaning lamp does not turn on.	1. Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective cleaning lamp.	Check for continuity. If none, replace the cleaning lamp.
	3. Defective main/engine PWB.	If YC3-B6 and YC3-B7 on the main/engine PWB is always low, replace the main/engine PWB.
(7) The exposure lamp does not turn on or off.	1. Poor contact in the connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective exposure lamp.	Run maintenance item U061 and check if the exposure lamp turns on with YC2-1 and YC2-4 on the inverter PCB go low. If not, replace the exposure lamp.
	3. Defective inverter PWB.	Run maintenance item U061 and check if the exposure lamp turns on with YC1-3 on the inverter PWB go low. If not, replace the inverter PWB.
		If the exposure lamp does not turn off with YC1-3 on the inverter PWB high, replace the inverter PWB.
	4. Defective main/engine PWB.	Run maintenance item U061 and check if YC16-4 on the main/engine PWB goes low. If not, replace the main/engine PWB.
		If YC16-4 on the main/engine PWB is always low, replace the main/engine PWB.
(8) Main charging is not performed.	1. Broken main charger wire.	Replace the main charger unit (see page 1-5-36).
	2. Leaking main charger housing.	Clean the main charger wire and grid.
	3. The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	4. Defective high voltage PWB.	Check if main charging takes place when CN1-7 on the high voltage PWB goes low while maintenance item U100 is run. If not, replace the high voltage PWB.
	5. Defective main/engine PWB.	Check if YC8-7 on the main/engine PWB goes low when maintenance item U100 is run. If not, replace the main/engine PWB.
(9) No developing bias is output.	1. The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective high voltage PWB.	Check if developing bias is output when CN1-9 on the high voltage PWB goes low while maintenance item U101 is run. If not, replace the high voltage PWB.
	3. Defective main/engine PWB.	Check if YC8-9 on the main/engine PWB goes low when maintenance item U101 is run. If not, replace the main/engine PWB.

Problem	Causes	Check procedures/corrective measures
(10) Transfer charging is not performed.	1. The connector terminals of the high voltage PWB make poor contact.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective high voltage PWB.	Check if transfer charging takes place when CN1-4 on the high voltage PWB goes low while maintenance item U101 is run. If not, replace the high voltage PWB.
	3. Defective main/engine PWB.	Check if YC8-4 on the main/engine PWB goes low when maintenance item U101 is run. If not, replace the main/engine PWB.
(11) The original size is not detected correctly.	1. Original is not placed correctly.	Check the original and correct if necessary.
	2. Poor contact in the original detection switch or original size detection sensor connector terminals.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	3. Defective original detection switch.	If the level of YC5-B8 on the main/engine PWB does not go low when the original detection switch is turned on and off, replace the original detection switch.
	4. Defective original size detection sensor.	Check if sensor operates correctly. If not, replace it.
(12) The message requesting paper to be loaded is shown when paper is present on the cassette or MP tray.	1. Poor contact in the connector terminals of paper switch or MP paper switch.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective paper switch or MP paper switch.	If the level of following terminal on PWB does not go low when the switch is turned on and off, replace the switch. Paper switch: YC2-2 on the cassette PWB MP paper switch: YC5-12 on the cassette PWB
(13) The size of paper on the cassette or MP tray is not displayed correctly.	1. Poor contact in the connector terminals of paper size length switch or MP paper size width switch.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective paper size length switch or MP paper size width switch.	If the level of following terminal on PWB does not go low when the switch is turned on and off, replace the switch. Paper size length switch: YC9-B3, B4, B6 on the main/engine PWB MP paper size width switch: YC5-2 on the cassette PWB
(14) A paper jam in the paper feed, paper conveying, eject or duplex section is indicated when the main power switch is turned on.	1. A piece of paper torn from copy paper is caught around registration switch, eject switch or duplex paper conveying switch.	Check visually and remove it, if any.
	2. Defective switch.	Run maintenance item U031 and turn switch on and off manually. Replace the switch if indication of the corresponding switch is not light. Registration switch, eject switch, duplex paper conveying switch

Problem	Causes	Check procedures/corrective measures
(15) The message requesting cover to be closed is displayed when the front cover or left cover is closed.	1. Poor contact in the connector terminals of front cover safety switch or left cover safety switch.	Reinsert the connector. Also check for continuity within the connector cable. If none, remedy or replace the cable.
	2. Defective front cover safety switch or left cover safety switch.	Check for continuity across each switch. If there is no continuity when the switch is on, replace it.
(16) Others.	1. Wiring is broken, shorted or makes poor contact.	Check for continuity. If none, repair.

1-4-5 Mechanical problems

Problem	Causes/check procedures	Corrective measures
(1) No primary paper feed.	Check if the surfaces of the following rollers or pulleys are dirty with paper powder: forwarding pulley, paper feed pulley, separation pulley, registration roller, MP paper feed pulley and MP separation pad.	Clean with isopropyl alcohol.
	Check if the upper/lower forwarding pulleys, forwarding pulley, paper feed pulley or separation pulley is deformed.	Replace the pulley if it is deformed (see page 1-5-3).
	Check if the MP paper feed pulley or MP separation pad is deformed.	Replace the pulley if it is deformed (see page 1-5-11).
	Electrical problem with the following clutches and solenoid: paper feed clutch, registration clutch and MP solenoid.	See page 1-4-28.
(2) No secondary paper feed.	Check if the surfaces of the right and left registration rollers are dirty with paper powder.	Clean with isopropyl alcohol.
	Electrical problem with the registration clutch.	See page 1-4-28.
(3) Skewed paper feed.	Width guide in a cassette installed incorrectly.	Check the width guide visually and correct or replace if necessary.
	Deformed width guide in a cassette.	Check visually and replace any deformed guide.
	Check if a pressure spring along the paper conveying path is deformed or out of place.	Repair or replace.
(4) The scanner does not travel.	Check if the scanner wire is loose.	Reinstall the scanner wire (see page 1-5-19).
	The scanner motor malfunctions.	See page 1-4-28.
(5) Multiple sheets of paper are fed at one time.	Paper is extremely curled.	Change the paper.
	Check if the separation pulley is worn.	Replace the separation pulley if it is worn (see page 1-5-3).
	Check if the MP separation pad is worn.	Replace the MP separation pad if it is worn (see page 1-5-11).
(6) Paper jams.	Paper is extremely curled.	Change the paper.
	Deformed guides along the paper conveying path.	Check visually and replace any deformed guides.
	Check if the contact between the right and left registration rollers is correct.	Check visually and remedy if necessary.
	Check if the press roller is extremely dirty or deformed.	Clean or replace the press roller.
	Check if the contact between the heat roller and its separation claws is correct.	Repair if any springs are off the separation claws.
	Check if the contact between the eject roller and pulley is correct.	Check visually and remedy if necessary.
(7) Toner drops on the paper conveying path.	Check if the developing unit is extremely dirty.	Clean the developing unit.

Problem	Causes/check procedures	Corrective measures
(8) Abnormal noise is heard.	Check if the pulleys, rollers and gears operate smoothly.	Grease the bearings and gears.
	Check if the following clutches and solenoid are installed correctly: paper feed clutch, registration clutch and MP solenoid.	Correct.

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1-5-1 Precautions for assembly and disassembly

(1) Precautions

Before starting disassembly, turning off the main power switch. And then unplug the power cable from the wall outlet.

When handling PWBs (printed wiring boards), do not touch parts with bare hands.

The PWBs are susceptible to static charge.

Do not touch any PWB containing ICs with bare hands or any object prone to static charge.

Use only the specified parts to replace the fuser unit thermostat. Never substitute electric wires, as the machine may be seriously damaged.

When removing the hook of the connector, be sure to release the hook.

Take care not to get the cables caught.

To reassemble the parts, use the original screws. If the types and the sizes of screws are not known, refer to the PARTS LIST.

(2) Drum

Note the following when handling or storing the drum.

When removing the drum unit, never expose the drum surface to strong direct light.

Keep the drum at an ambient temperature between -20°C/-4°F and 40°C/104°F and at a relative humidity not higher than 90% RH. Avoid abrupt changes in temperature and humidity.

Avoid exposure to any substance which is harmful to or may affect the quality of the drum.

Do not touch the drum surface with any object. Should it be touched by hands or stained with oil, clean it.

(3) Toner

Store the toner container in a cool, dark place.

Avoid direct light and high humidity.

(4) How to tell a genuine Kyocera Mita toner container

As a means of brand protection, the Kyocera Mita toner container utilizes an optical security technology to enable visual validation. A validation viewer is required to accomplish this.

Hold the validation viewer over the left side part of the brand protection seal on the toner container. Through each window of the validation viewer, the left side part of the seal should be seen as follows:

A black-colored band when seen through the left side window

A shiny or gold-colored band when seen through the right side window

The above will reveal that the toner container is a genuine Kyocera Mita branded toner container, otherwise, it is a counterfeit.

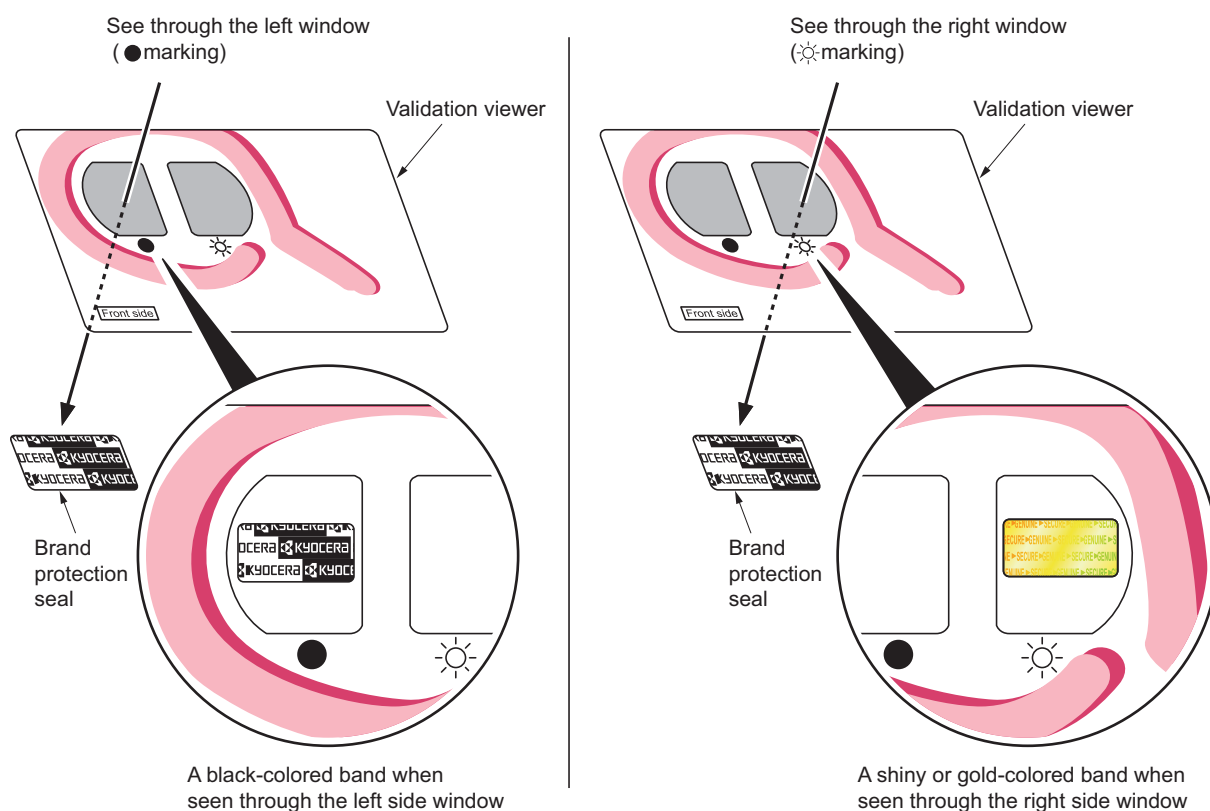


Figure 1-5-1

The brand protection seal has an incision as shown below to prohibit reuse.

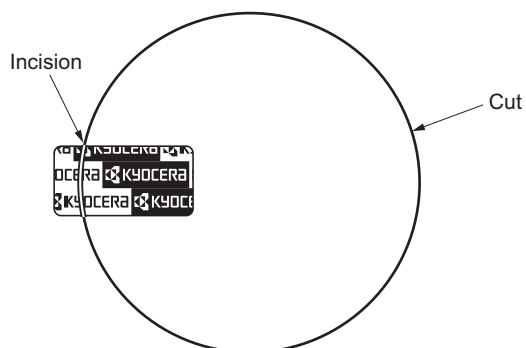


Figure 1-5-2

1-5-2 Paper feed section

(1) Detaching and refitting the separation pulley

Follow the procedure below to replace the separation pulley.

Procedure

1. Open the front cover and left cover.
2. Pull out the cassette.

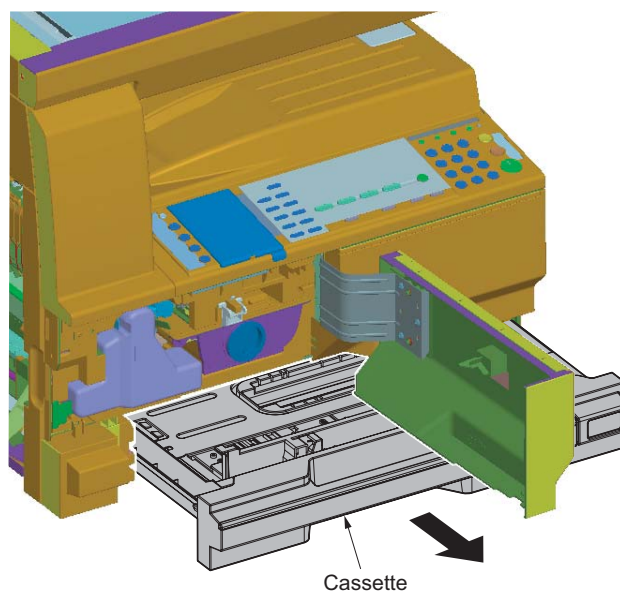


Figure 1-5-3

3. Remove the screw and remove the front left lower cover.

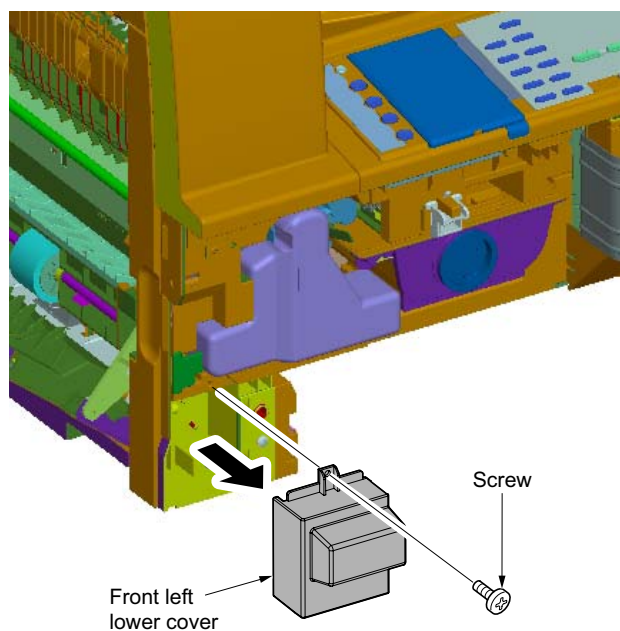


Figure 1-5-4

4. Remove the screw and remove the lower paper feed unit.

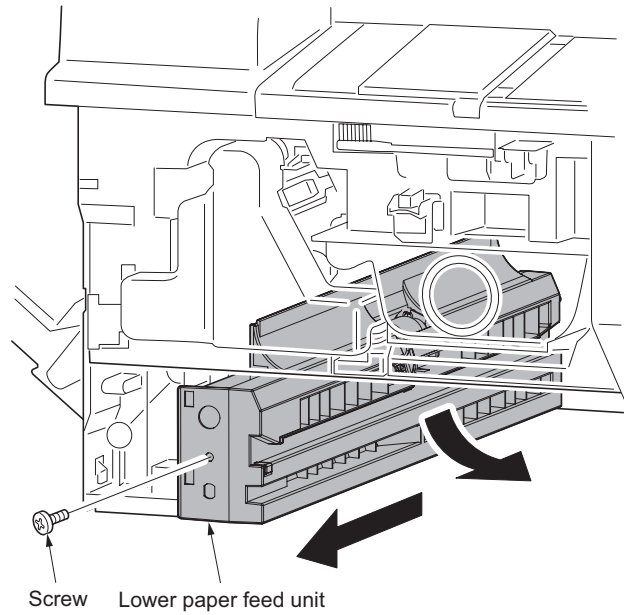


Figure 1-5-5

5. Release two hooks and remove the separation pulley unit from the lower paper feed unit.

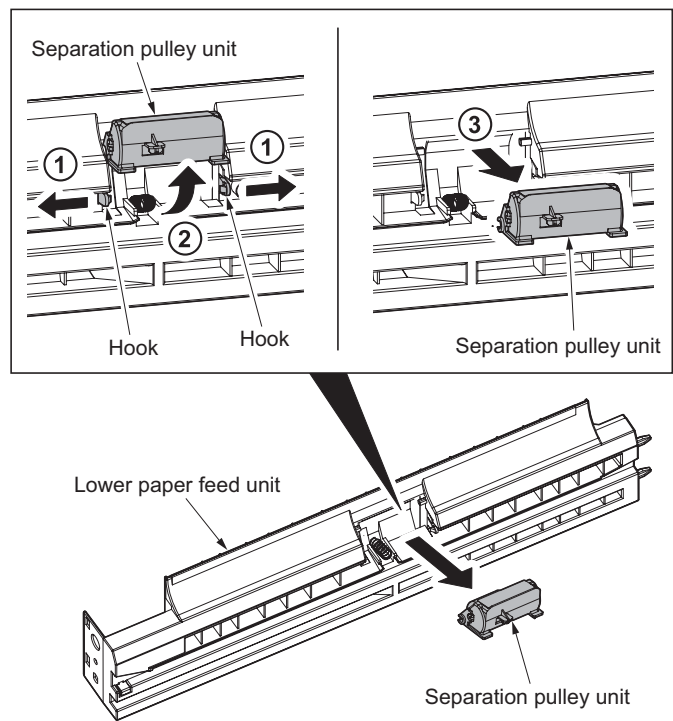


Figure 1-5-6

6. Remove the separation pulley shaft from the separation pulley unit.
7. Remove the separation pulley from the separation pulley shaft.
8. Replace the separation pulley and refit all the removed parts.

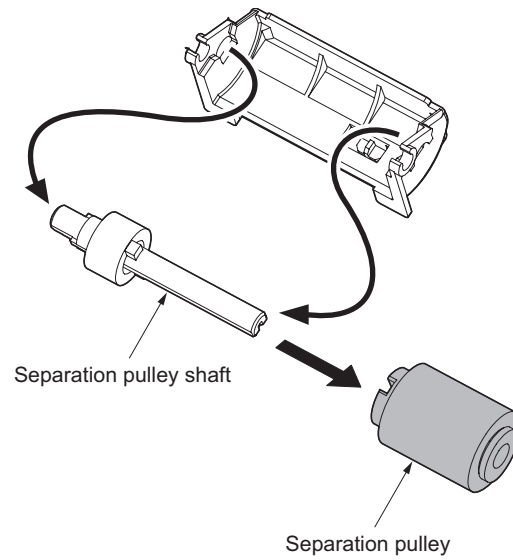


Figure 1-5-7

(2) Detaching and refitting the forwarding pulley and paper feed pulley

Follow the procedure below to replace the forwarding pulley and paper feed pulley.

Procedure

1. Remove the lower paper feed unit (see page 1-5-3).
2. Remove the drum unit (see page 1-5-34).
3. Remove five screws and remove the rear cover.

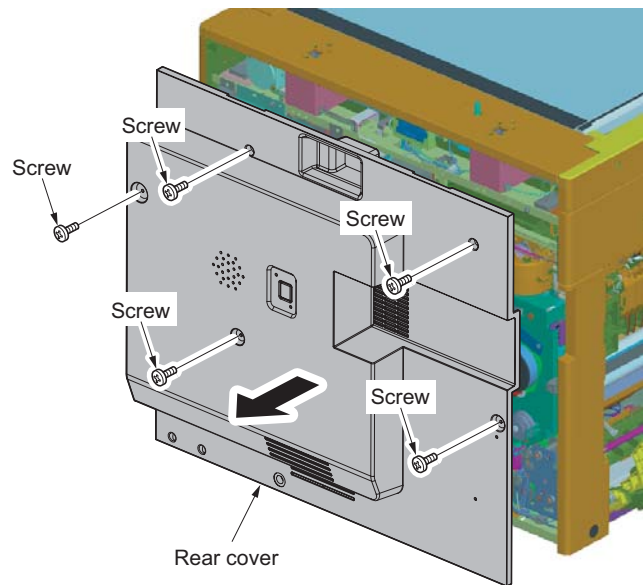


Figure 1-5-8

4. Remove the connector of the paper feed clutch.
5. Remove the paper feed clutch, stop ring and bush.

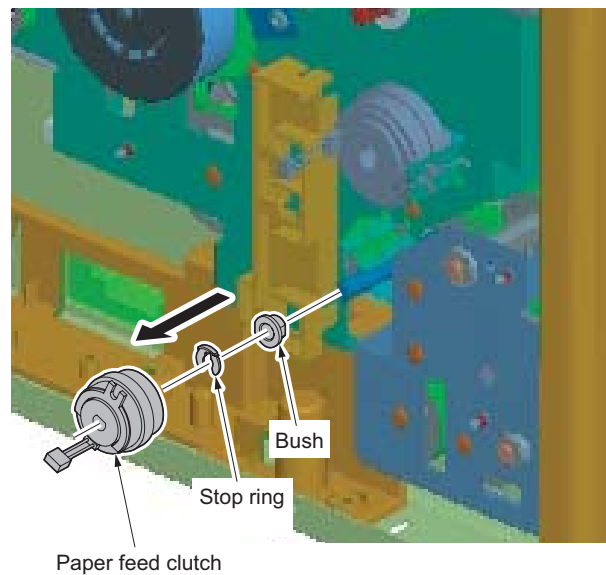
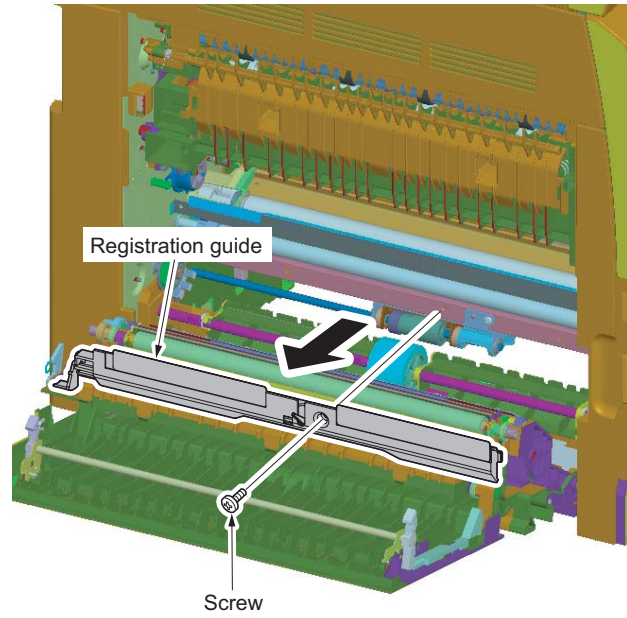
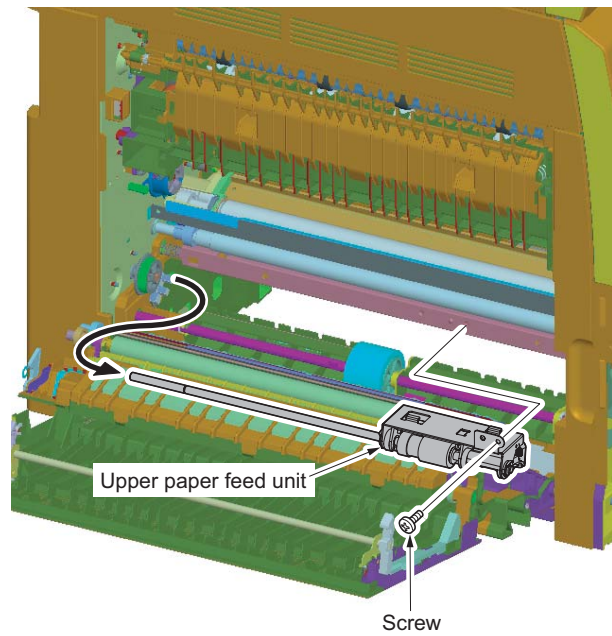


Figure 1-5-9

6. Remove the screw and remove the registration guide.

**Figure 1-5-10**

7. Remove the screw and remove the upper paper feed unit.

**Figure 1-5-11**

8. Remove the springs, stop ring and bush and then remove the shaft holder from the upper paper feed unit.

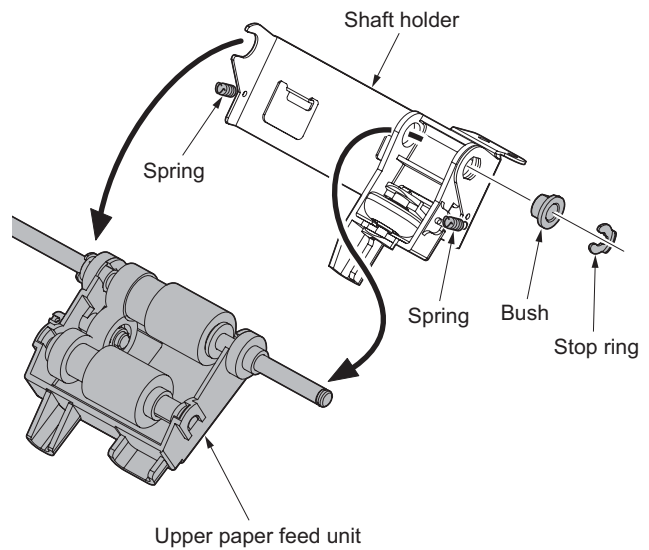


Figure 1-5-12

9. Remove the forwarding pulley from the upper paper feed unit.
10. Remove the paper feed pulley shaft from the upper paper feed unit.
11. Remove the collar and the paper feed pulley from the upper paper feed shaft.
12. Replace the forwarding pulley and paper feed pulley and refit all the removed parts.

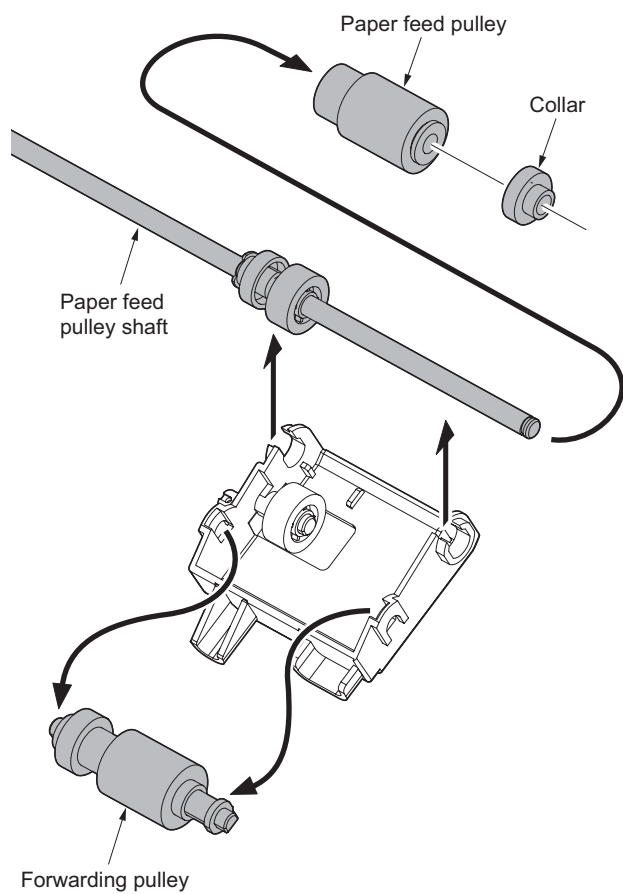


Figure 1-5-13

(3) Detaching and refitting the paper conveying unit

Follow the procedure below to maintenance of the paper feed section.

Procedure

1. Remove the drum unit (see page 1-5-34).
2. Remove the lower paper feed unit (see page 1-5-3).
3. Remove the stop ring and strap from the rear side of the left cover.
Remove the stop ring and stopper from the front side of the left cover.

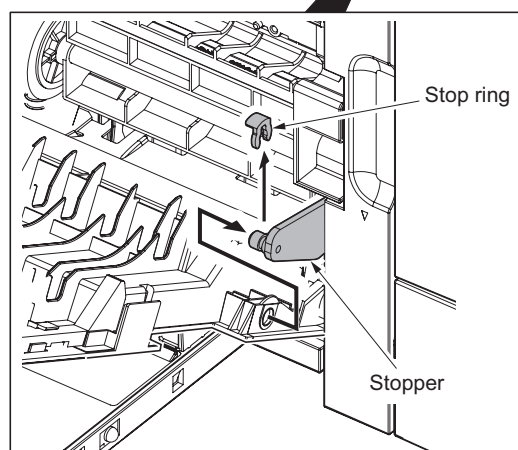
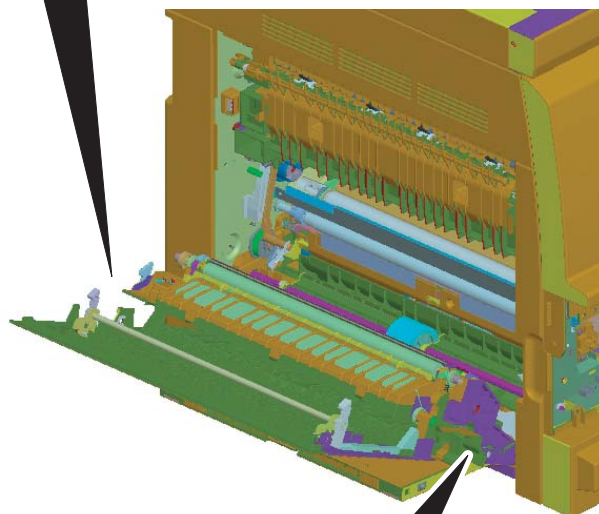
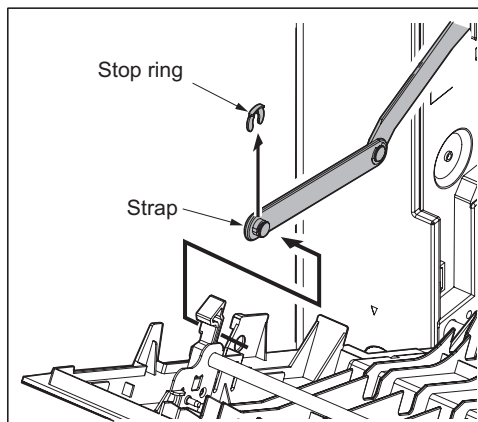


Figure 1-5-14

4. Remove the left cover from machine.
5. Remove the paper conveying unit from the machine.

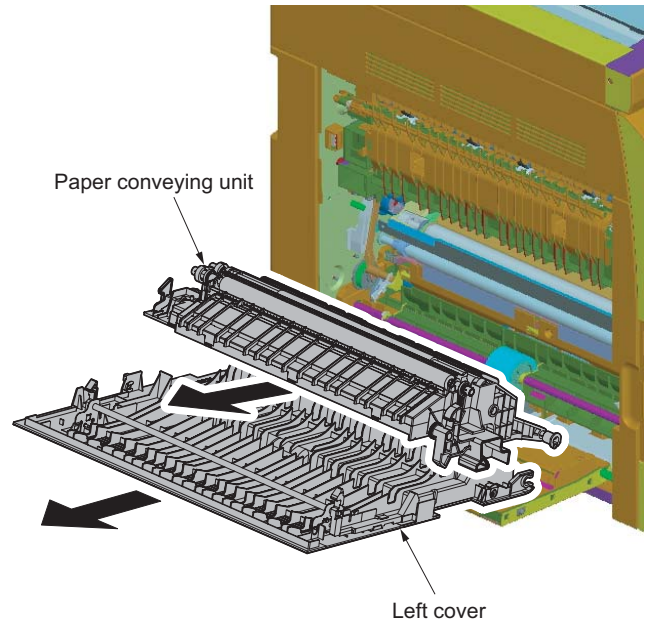


Figure 1-5-15

(4) Detaching and refitting the MP paper feed pulley and MP separation pad

Follow the procedure below to replace the MP paper feed pulley and MP separation pad.

Procedure

1. Open the front cover and remove the waste toner box. Pull out the cassette.
2. Remove the screw and remove the front left lower cover (see page 1-5-3).
3. Remove the paper conveying unit (see page 1-5-9).
4. Remove the stop ring and bush from the front side of the machine.

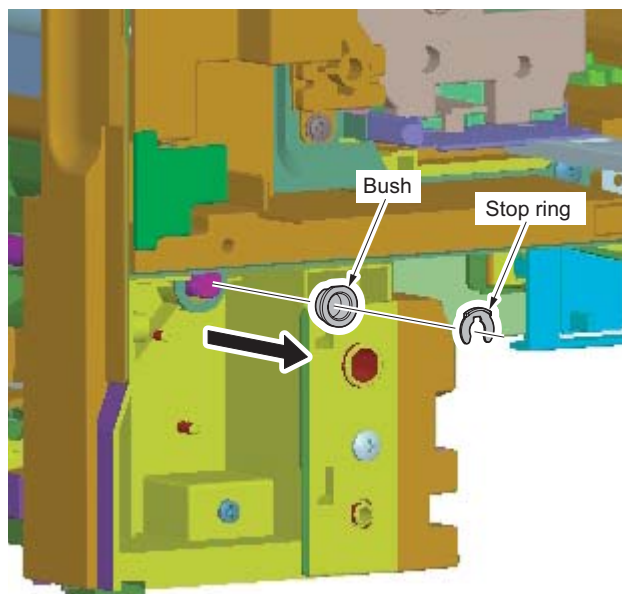


Figure 1-5-16

5. Remove the rear cover (see page 1-5-6).
6. Remove three screws and remove the MP drive unit.

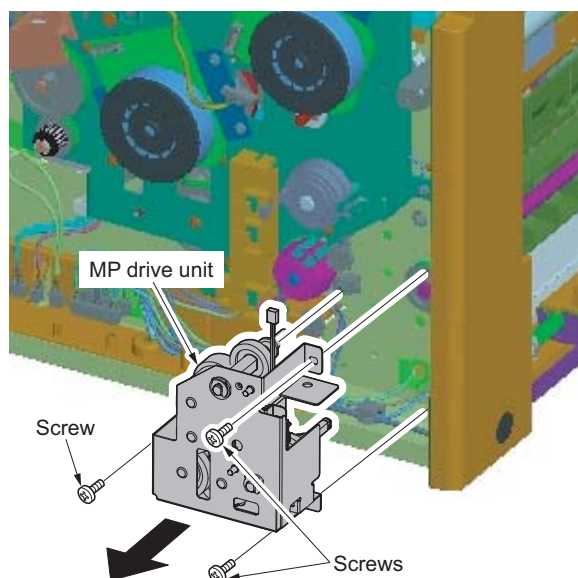


Figure 1-5-17

7. Remove the stop ring, gear and bush.

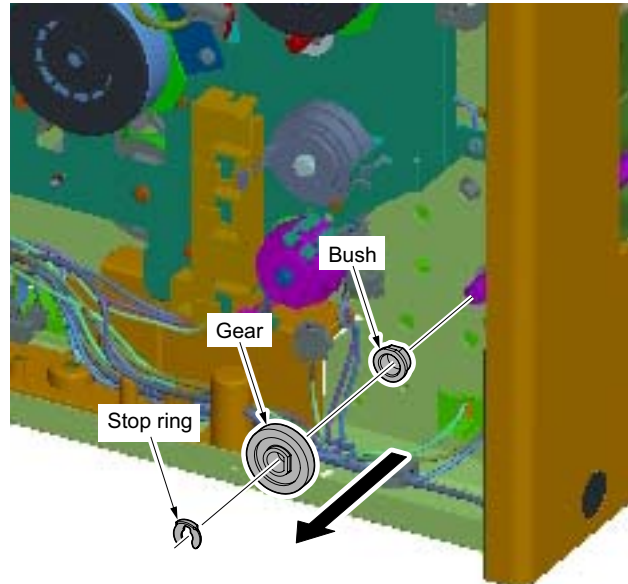


Figure 1-5-18

8. Temporarily push the MP paper feed pulley unit into the rear side to unlock the front side and then remove it from the machine.

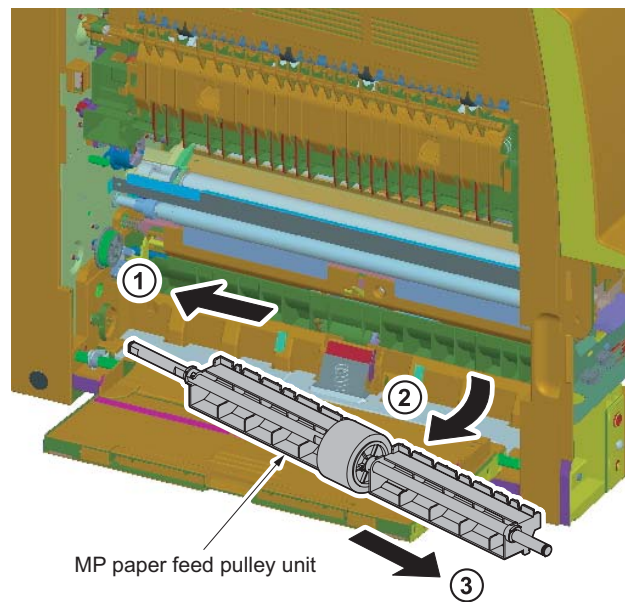


Figure 1-5-19

9. Remove the stop ring, MP paper guide, spring pin and the MP paper feed pulley.

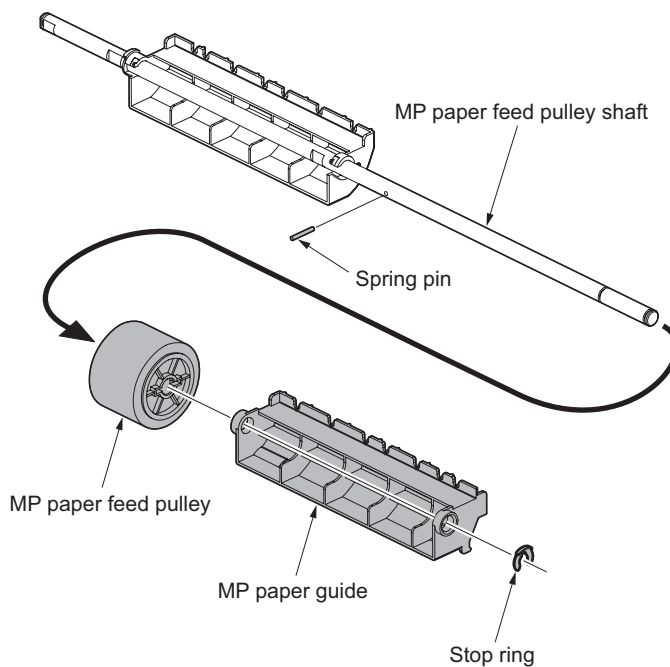


Figure 1-5-20

10. Push the inserted parts of the MP separation pad and remove the pad from the machine.
11. Replace the MP paper feed pulley and MP separation pad and refit all the removed parts.

Cautions

Confirm that the MP paper guide does not rotate (locked) after refit the MP paper feed pulley unit.

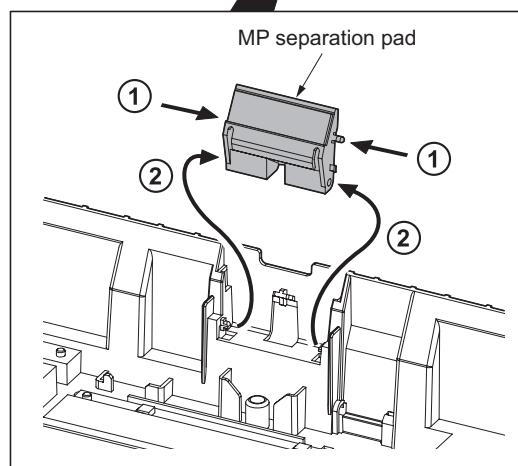
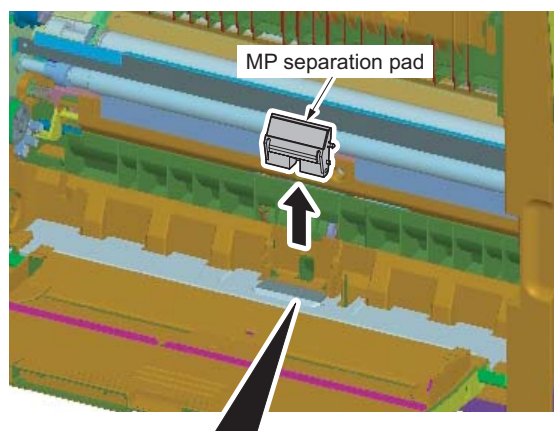


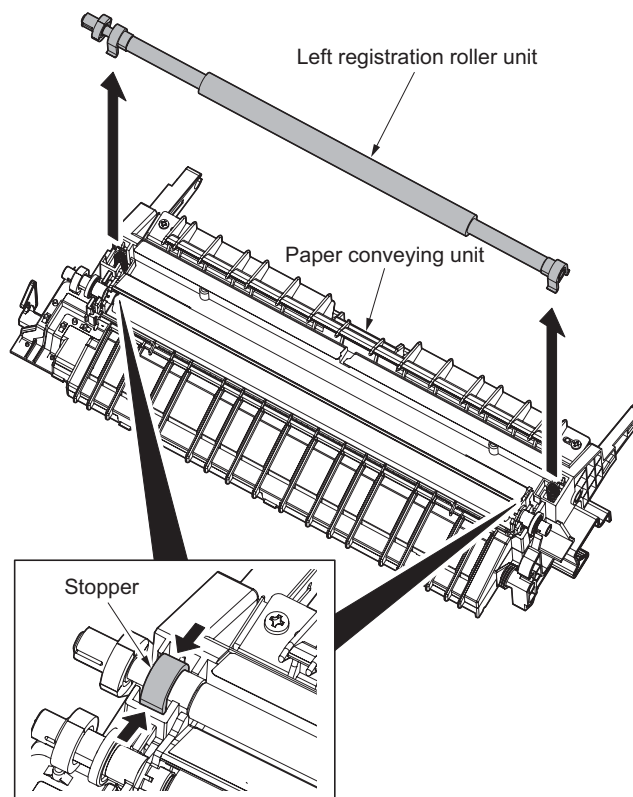
Figure 1-5-21

(5) Detaching and refitting the left registration roller

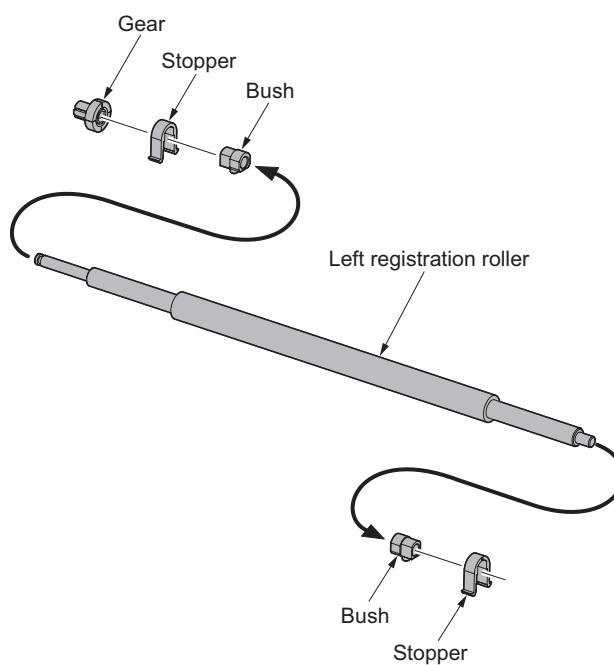
Follow the procedure below to replace the left registration roller.

Procedure

1. Remove the paper conveying unit (see page 1-5-9).
2. Release the stoppers at the front and rear side, and then remove the left registration roller from the paper conveying unit.

**Figure 1-5-22**

3. Remove two stoppers, gear and two bushes.
4. Replace the left registration roller and refit all the removed parts.

**Figure 1-5-23**

(6) Detaching and refitting the right registration roller

Follow the procedure below to replace the right registration roller.

Procedure

1. Remove the drum unit (see page 1-5-34).
2. Remove the rear cover (see page 1-5-6).
3. Remove the connector and remove the registration clutch.

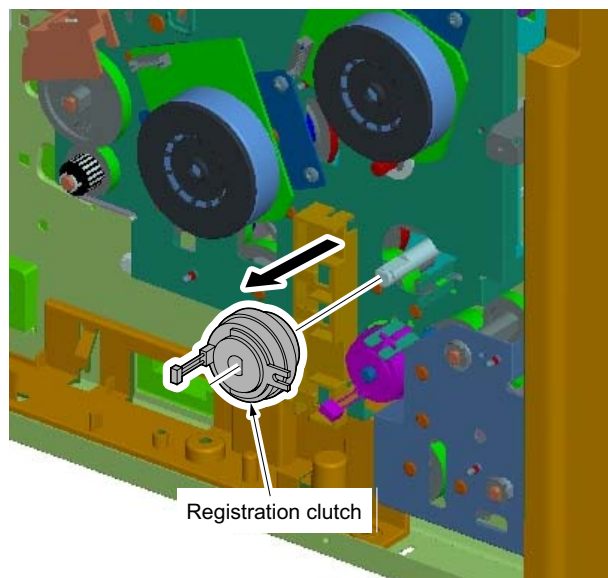


Figure 1-5-24

4. Remove the stop ring.
5. Remove the right registration roller from the machine.

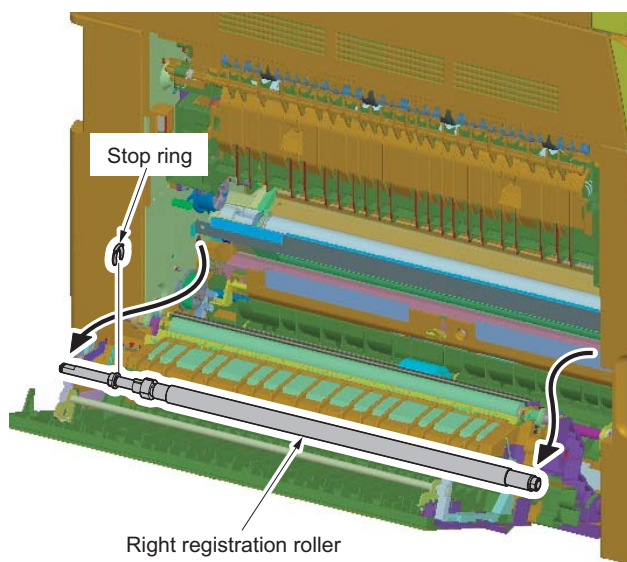


Figure 1-5-25

6. Remove two bushes and gear.
7. Replace the right registration roller and refit all the removed parts.

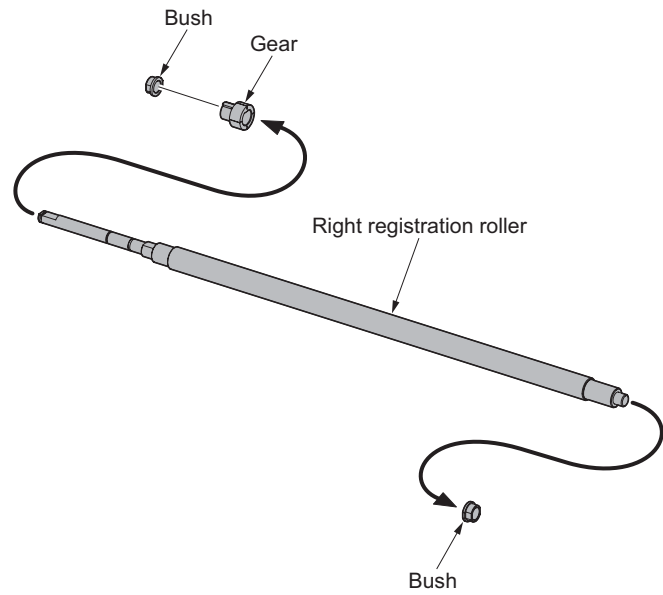


Figure 1-5-26

1-5-3 Optical section

(1) Detaching and refitting the exposure lamp

Follow the procedure below to replace the exposure lamp.

Procedure

1. Remove the original cover or the document processor.
2. Remove two screws and remove the right upper cover.
Remove the contact glass.

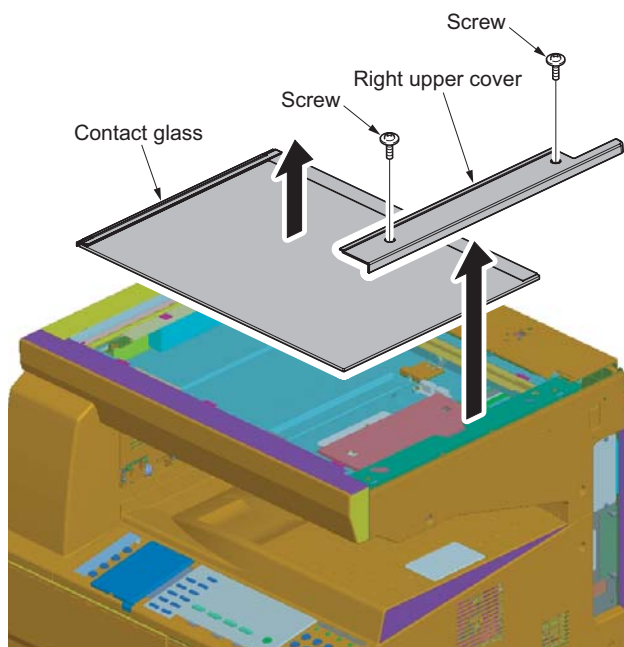


Figure 1-5-27

3. Open the front cover and left cover.
4. Remove the front left cover (see page 1-5-40).
5. Release five hooks and both and then remove the front scanner cover.
6. Remove two screws and remove the rear upper cover.

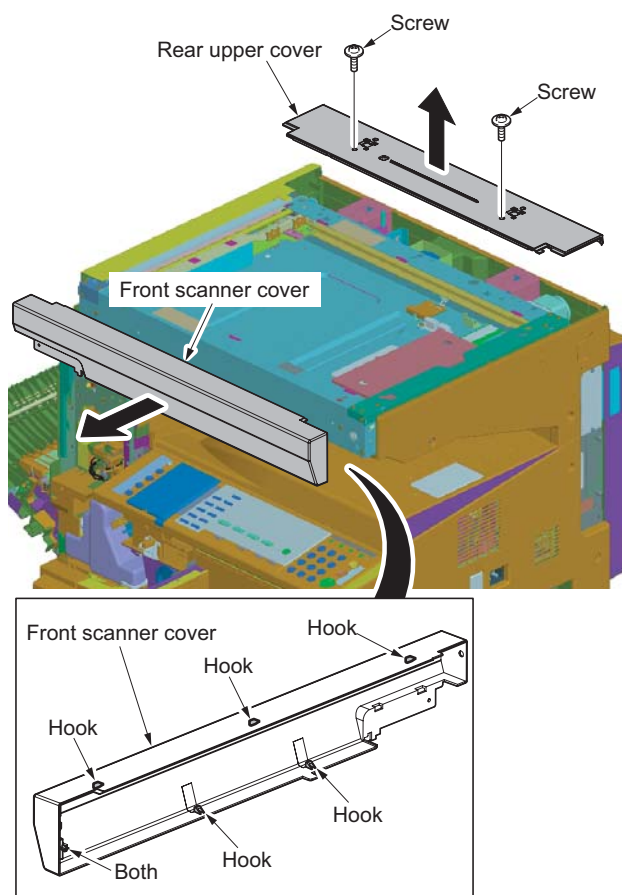


Figure 1-5-28

7. Remove two films from the scanner unit.
8. Move the mirror 1 frame to notch position. When moving the mirror 1 frame, do not touch the exposure lamp and the inverter PWB.

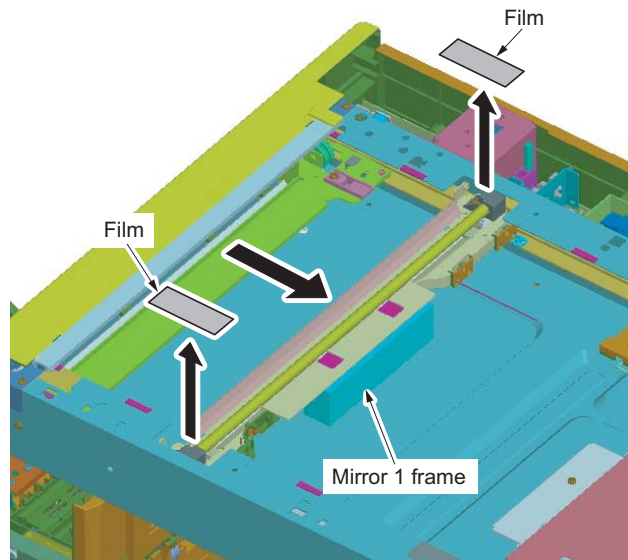


Figure 1-5-29

9. Remove the connector of the exposure lamp from inverter PWB and remove the lamp wire from ribs.

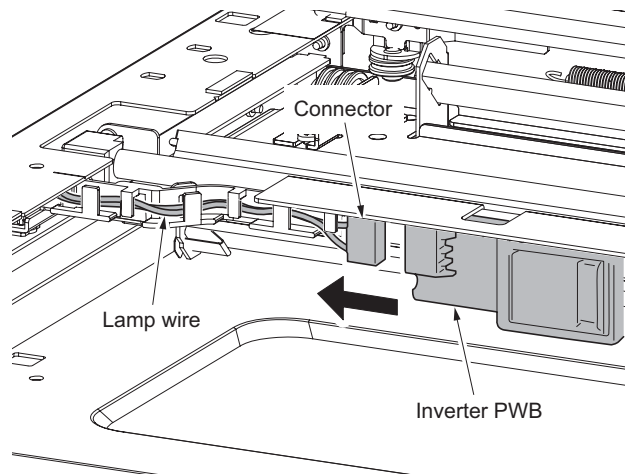


Figure 1-5-30

10. Remove two screws and remove the exposure lamp.
11. Replace the exposure lamp and refit all the removed parts.

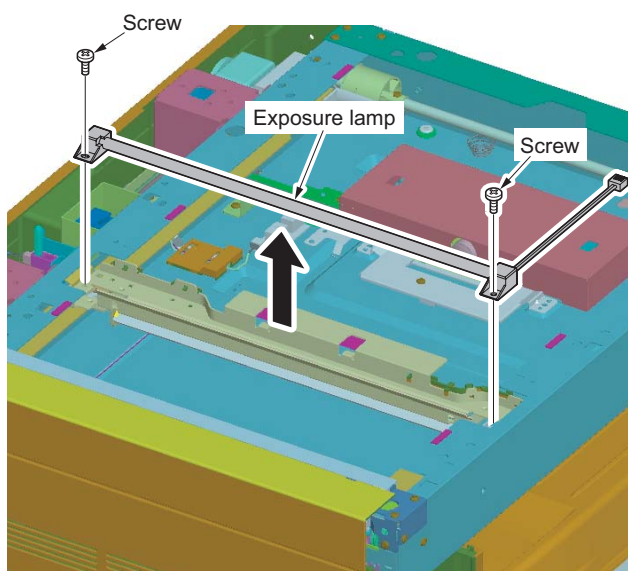


Figure 1-5-31

(2) Detaching and refitting the scanner wires

Take the following procedure when the scanner wires are broken or to be replaced.

(2-1) Detaching the scanner wires

Procedure

1. Remove the exposure lamp (see page 1-5-17).
2. Open the left cover.
3. Release six hooks and both and then remove the left middle cover.

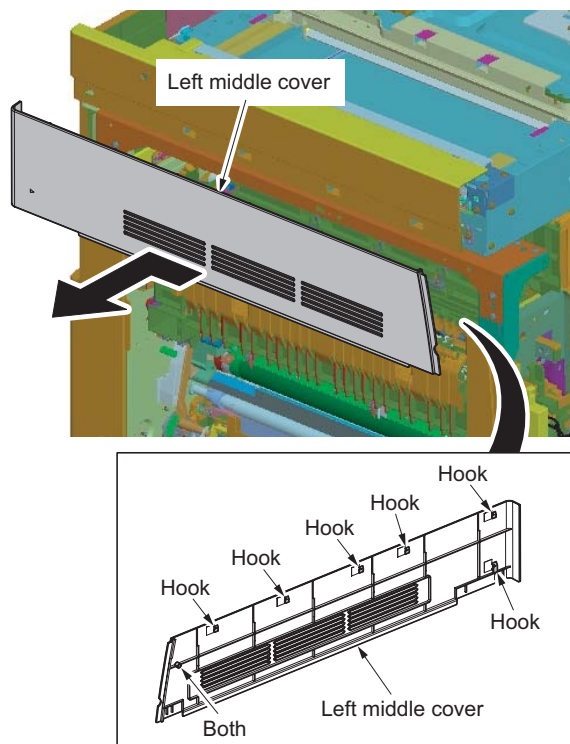


Figure 1-5-32

4. Release five hooks and two bothes and then remove the left upper cover.

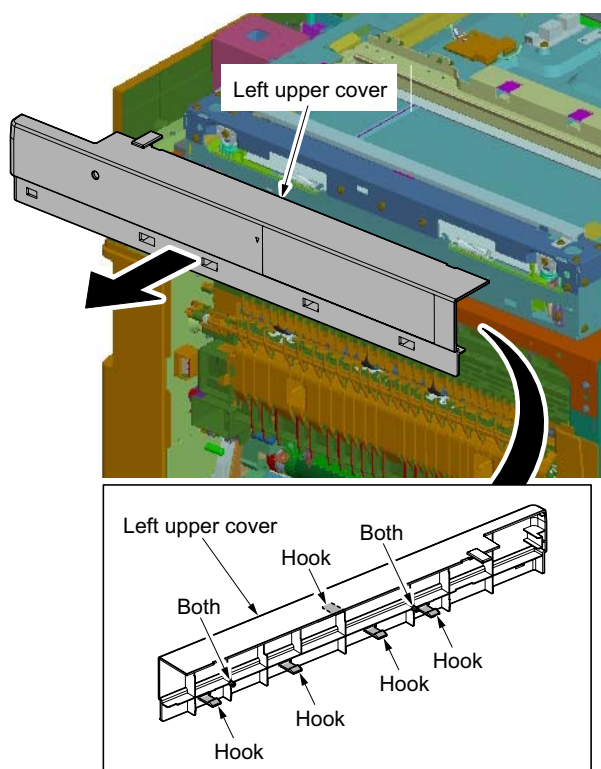


Figure 1-5-33

5. Remove the screw and remove the slit retainer and slit glass.

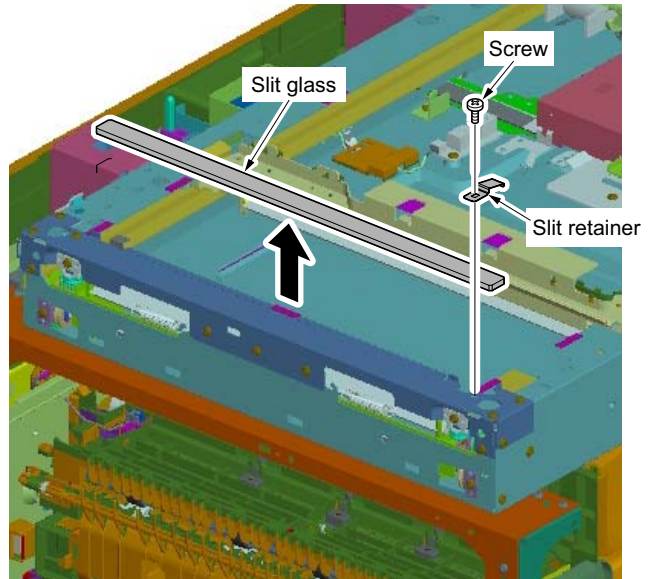


Figure 1-5-34

6. Remove two wire guides.
7. Remove the inverter wire from the inverter PWB.

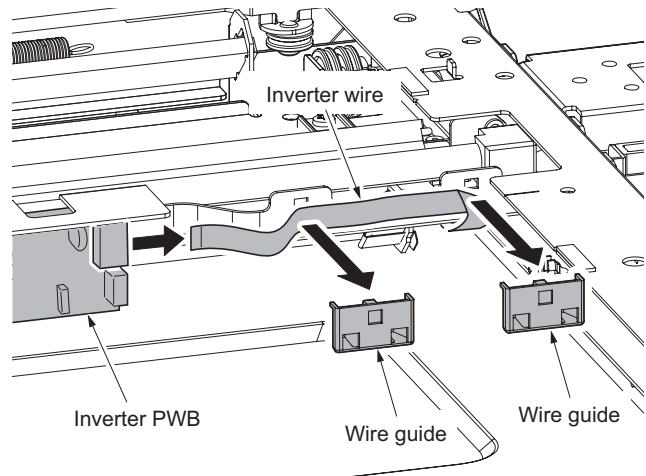
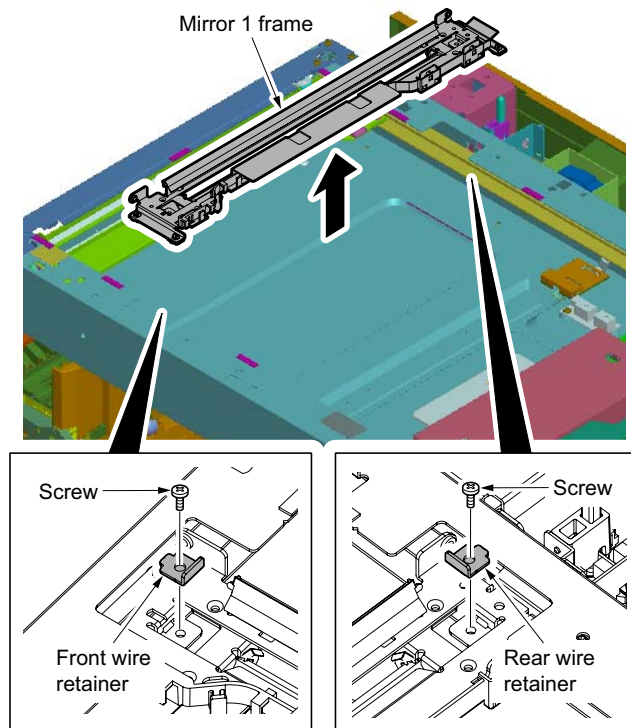
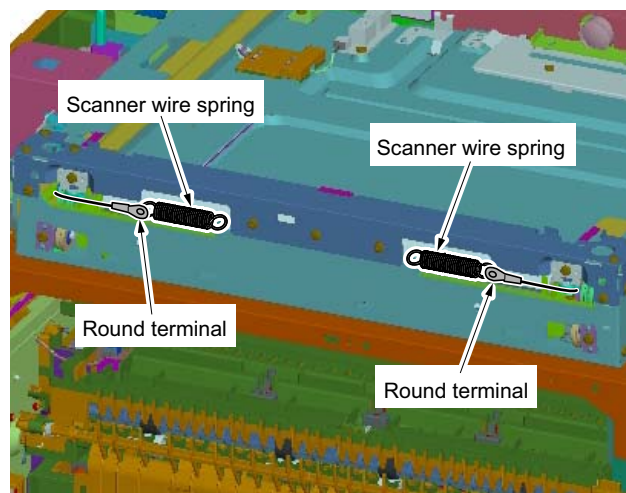


Figure 1-5-35

8. Remove each screw and remove front and rear wire holder plates.
Remove the mirror 1 frame from the scanner unit.

**Figure 1-5-36**

9. Remove the round terminals from the scanner wire springs.
10. Remove the scanner wires.

**Figure 1-5-37**

(2-2) Fitting the scanner wires

NOTE

When fitting the wires, be sure to use those specified below.

Machine front: (P/N: 2C91236), gray

Machine rear: (P/N: 2C91235), black

Fitting requires the following tools

Two frame securing tools (P/N 302C968310)

Two scanner wire stoppers (P/N 3596811)

Procedure

1. Remove the rear cover.

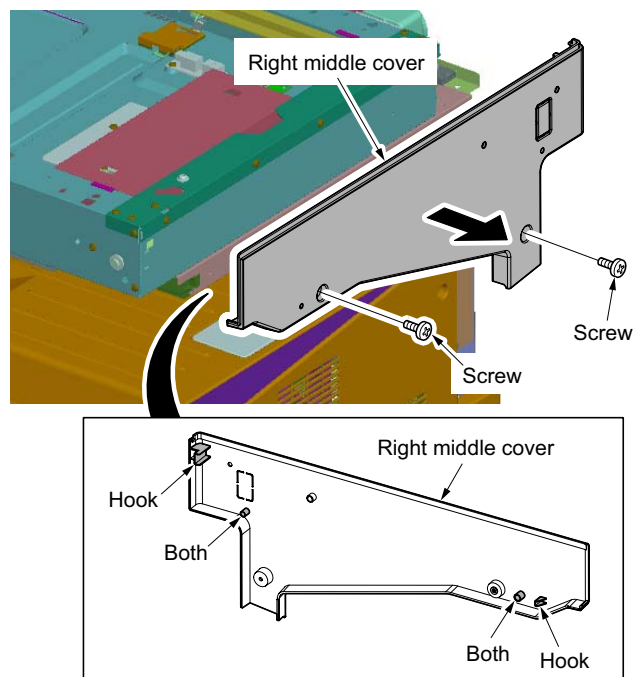


Figure 1-5-38

2. Remove the screw and remove the scanner wire drum gear from the rear side of the machine.
3. Remove the stop ring and bush.

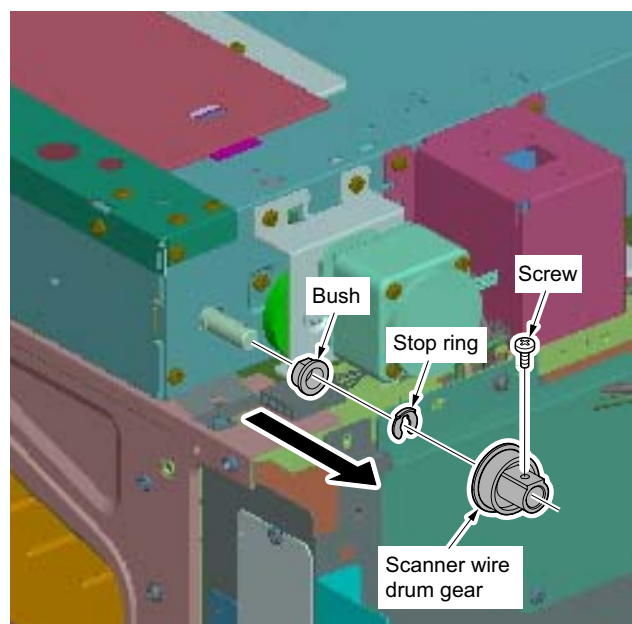


Figure 1-5-39

4. Remove the stop ring and bush from the front of the machine.
5. Remove the scanner wire drum shaft from the scanner unit.

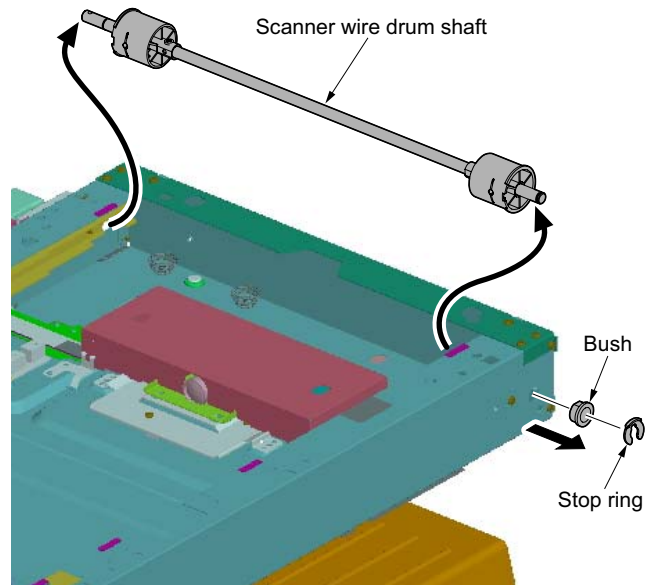


Figure 1-5-40

6. Insert the locating ball on each of the scanner wires into the hole in the respective scanner wire drum and wind the scanner wire three turns inward and four turns outward. With the locating ball as the reference point, wind the shorter end of each of the wires outward.
7. Secure the scanner wires using the scanner wire stoppers.

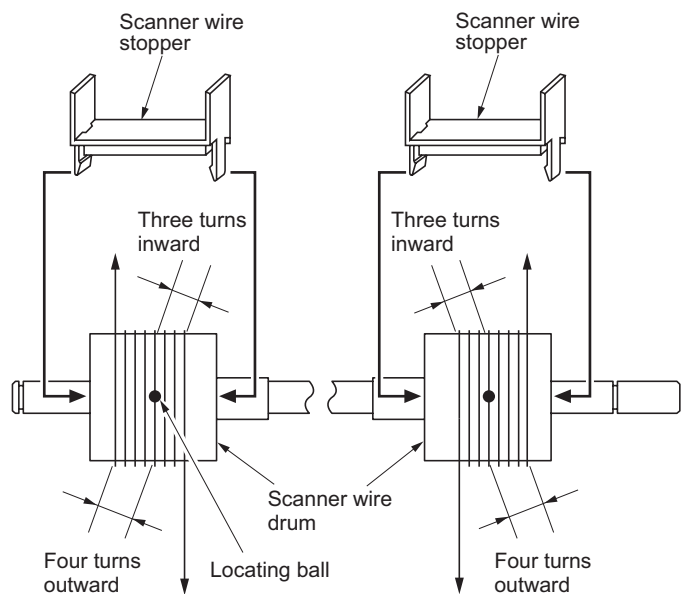


Figure 1-5-41

8. Refit the scanner wire drum shaft to the scanner unit.
9. Insert the two frame securing tools into the positioning holes at the front and rear of the scanner unit to fix the mirror 2 frame in position.

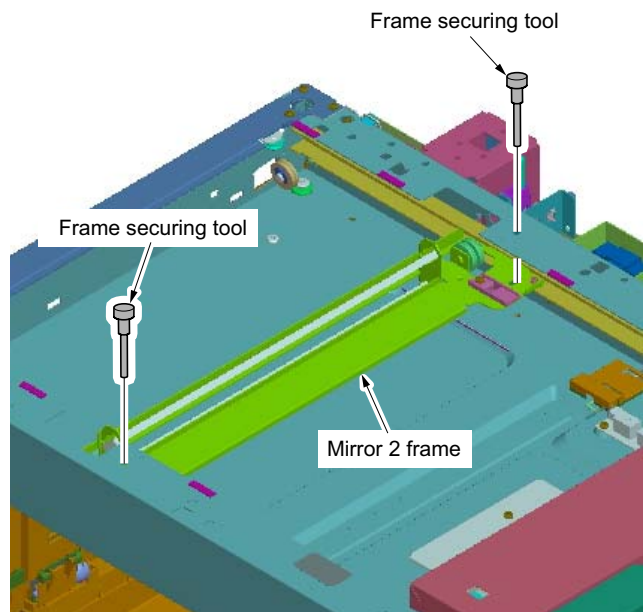


Figure 1-5-42

10. Loop the outer ends of the scanner wires around the outer grooves in the pulleys on the mirror 2 frame, winding from below to above. (1)
11. Hook the round terminals onto the catches inside the scanner unit. (2)
12. Loop the inner ends of the scanner wires around the grooves in the pulleys at the left of the scanner unit, winding from below to above. (3)
13. Loop the scanner wires around the inner grooves in the pulleys on the mirror 2 frame, winding from above to below. (4)
14. Wind the scanner wires around the grooves in the scanner wire guides at the left of the scanner unit. (5)
15. Hook the round terminals onto the scanner wire springs. (6)

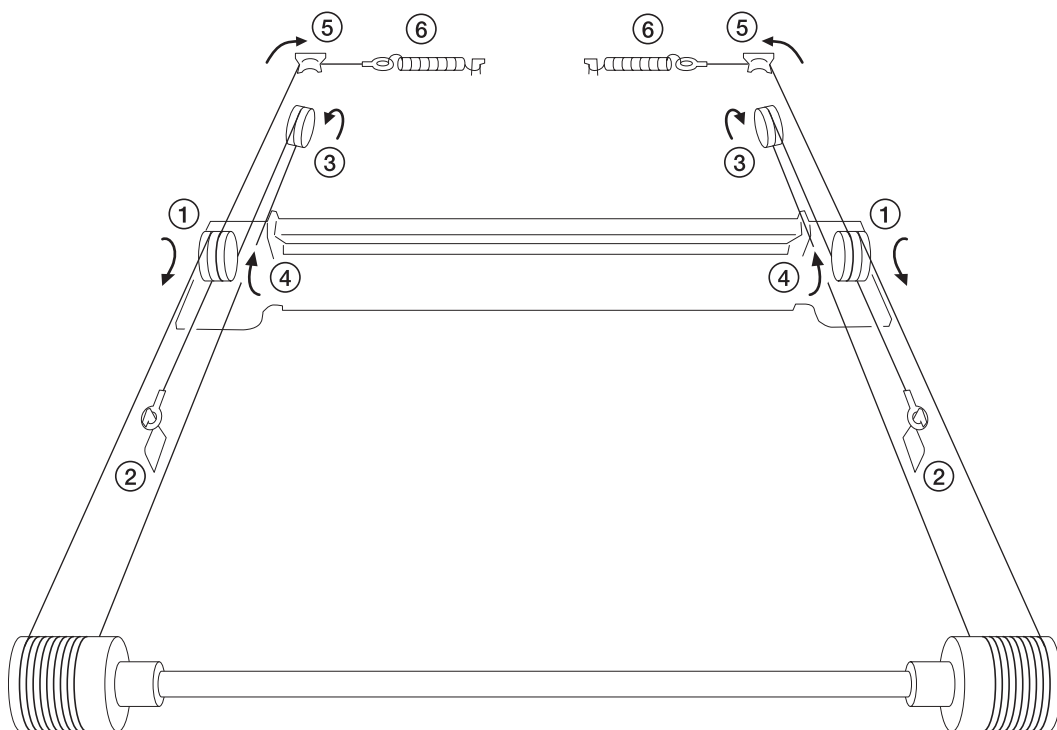
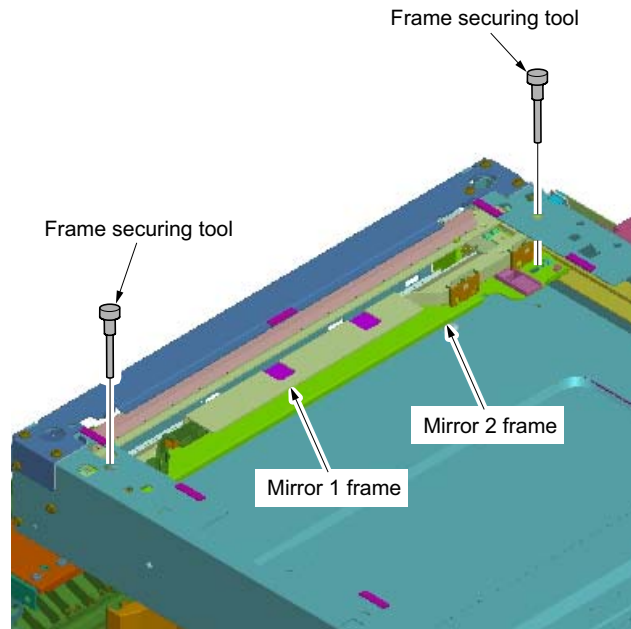


Figure 1-5-43

16. Remove two scanner wire stoppers and frame securing tools.
17. Focusing on the locating ball of the wire drum, move aside the wires to inside.
18. Move the mirror 2 frame from side to side to correctly locate the wires in position.
19. Put the mirror 1 frame on the scanner rail and move it toward the left side of the machine.
20. Insert the frame securing tools into the positioning holes (leftmost holes) at the front and rear of the scanner unit and screw the mirror 1 frame while securing both the mirror 1 frame and the mirror 2 frame.
21. Remove two frame securing tools.
22. Refit all the removed parts.

**Figure 1-5-44**

(3) Detaching and refitting the ISU (reference)

Follow the procedure below to replace the ISU.

Procedure

1. Remove the contact glass (see page 1-5-17).
2. Remove four screws and remove the ISU cover.

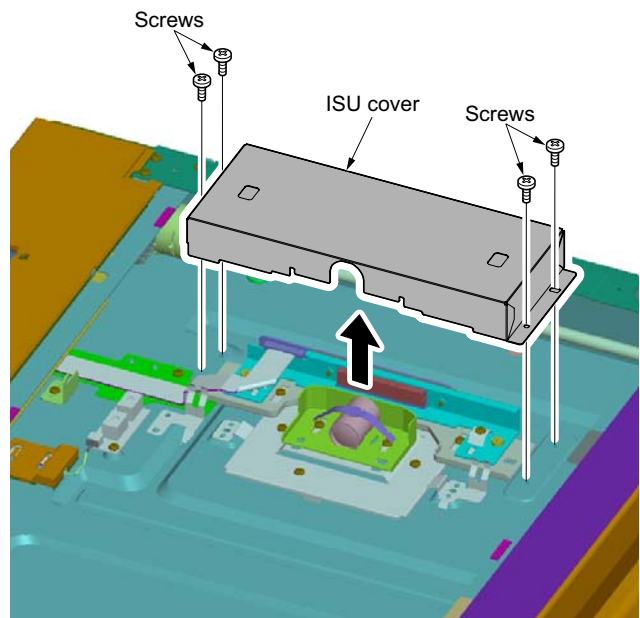


Figure 1-5-45

3. Remove the CCD wire from the CCD PWB.

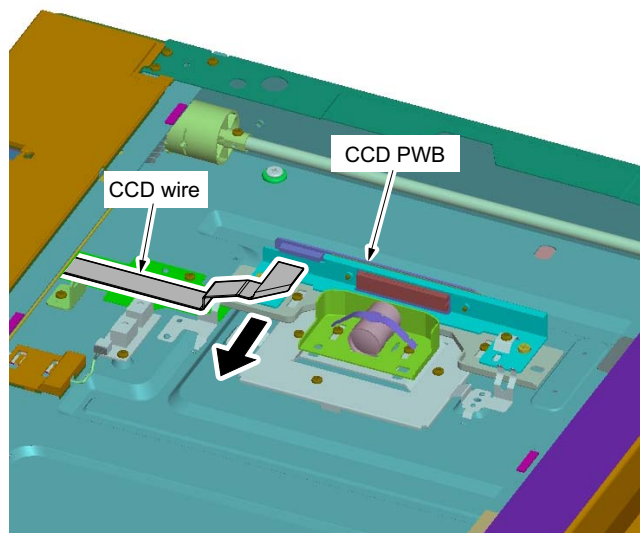


Figure 1-5-46

4. Remove each screw and remove two plates.
5. Remove three screws and remove the ISU
6. Replace the ISU.
7. Refit all the removed parts.

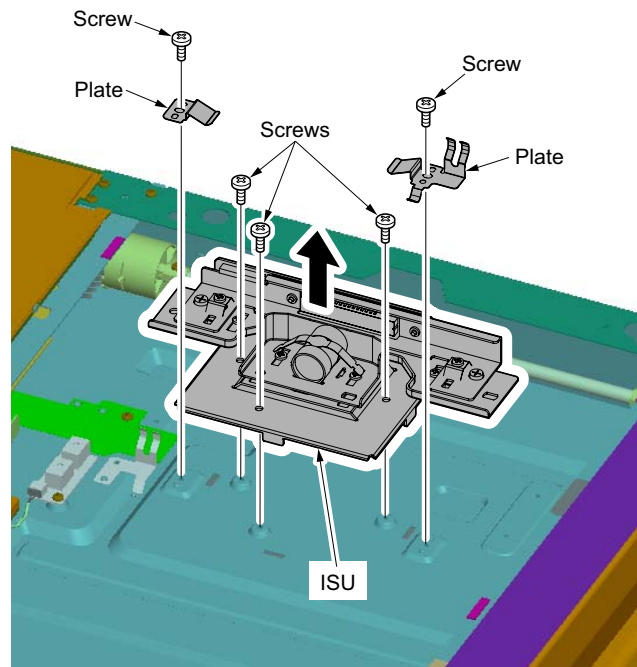


Figure 1-5-47

(4) Detaching and refitting the laser scanner unit

Follow the procedure below to replace the laser scanner unit.

Procedure

1. Remove the original cover or the document processor.
2. Remove the rear cover (see page 1-5-6).
Remove the front left cover (see page 1-5-40).
Remove the right upper cover, contact glass, rear upper cover and front scanner cover (see page 1-5-17).
Remove the left middle cover, left upper cover and slit glass (see page 1-5-19).
Remove the right middle cover (see page 1-5-22).
3. Remove the screw and release three hooks and then remove the front right cover.

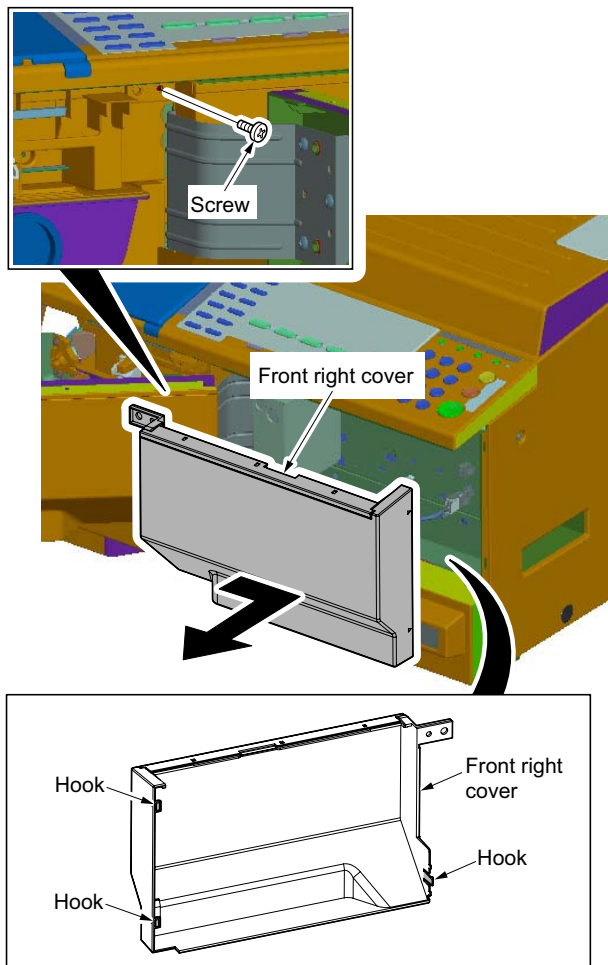


Figure 1-5-48

4. Remove two screws and release six hooks and two both, and then remove the right middle cover.

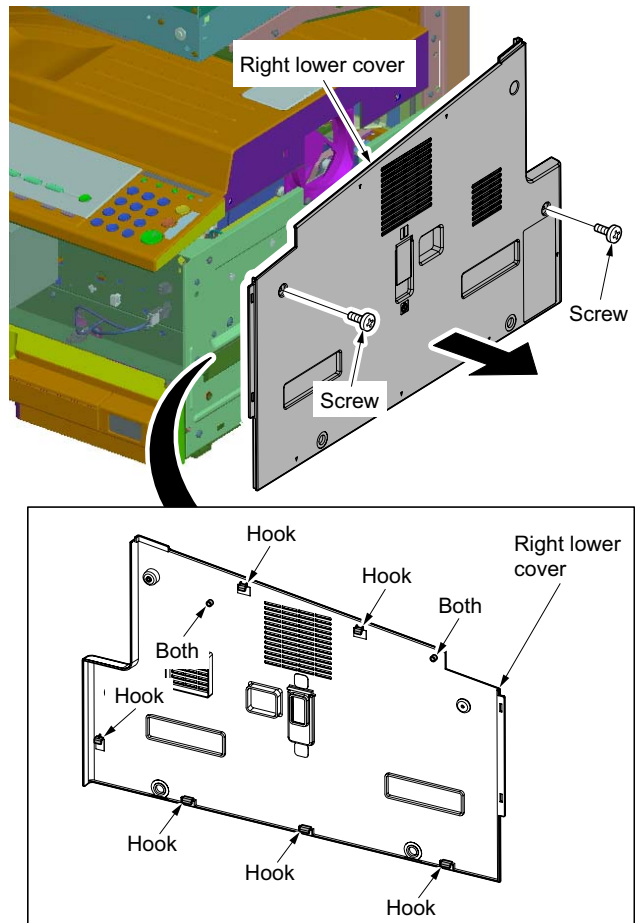


Figure 1-5-49

5. Remove YC5, YC15, YC16 and YC27 connectors of the main/engine PWB.

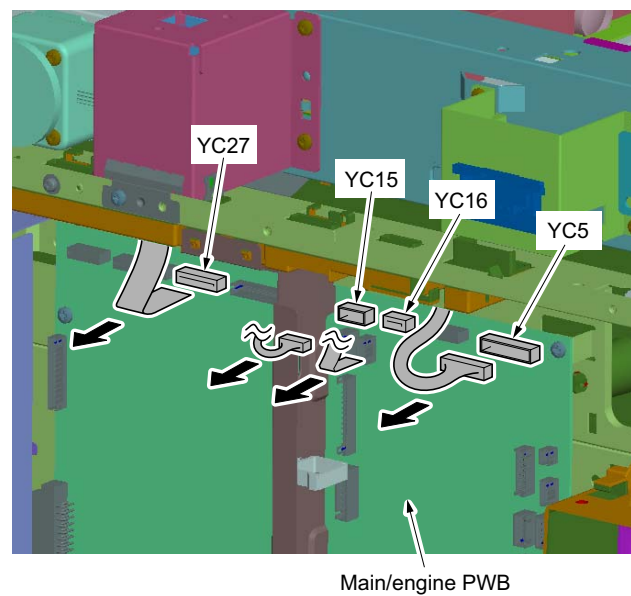


Figure 1-5-50

6. Remove four pins and remove the scanner unit.

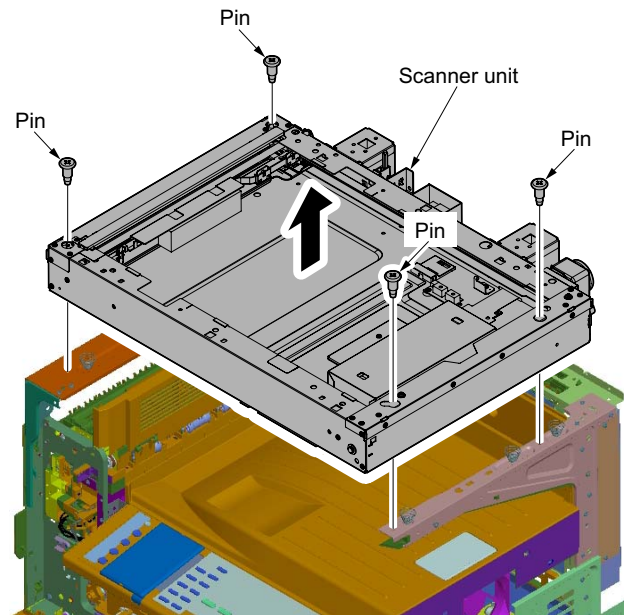


Figure 1-5-51

7. Remove the screw and remove the eject cover.

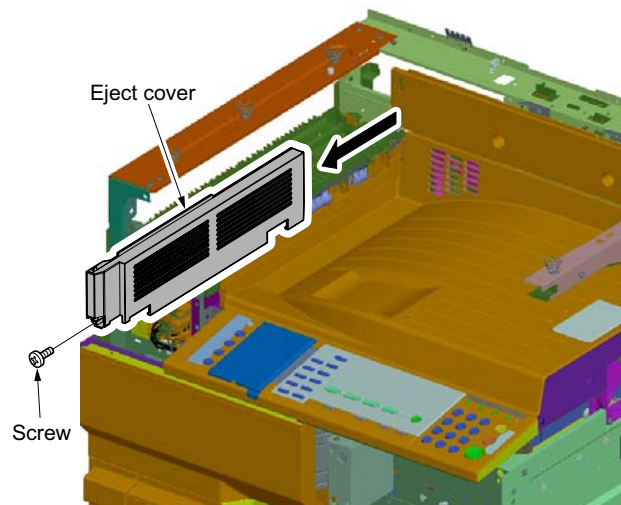


Figure 1-5-52

8. Remove the screw and remove the inner rear cover.

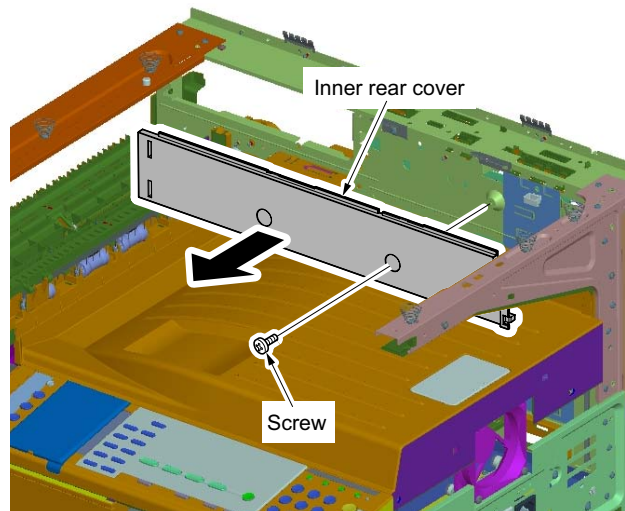


Figure 1-5-53

9. Release two hooks and both and then remove the eject tray.

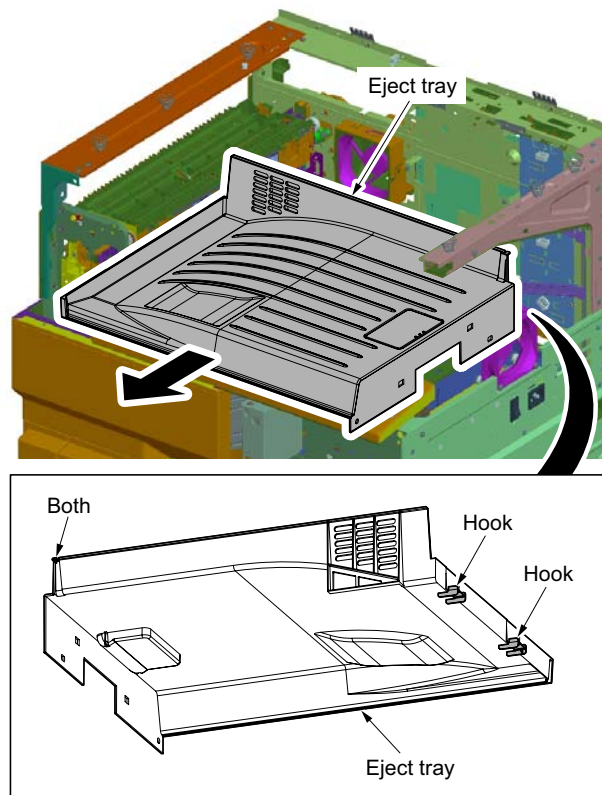


Figure 1-5-54

10. Remove four screws and two connectors and remove the laser scanner unit.
11. Replace the laser scanner unit and refit all the removed parts.

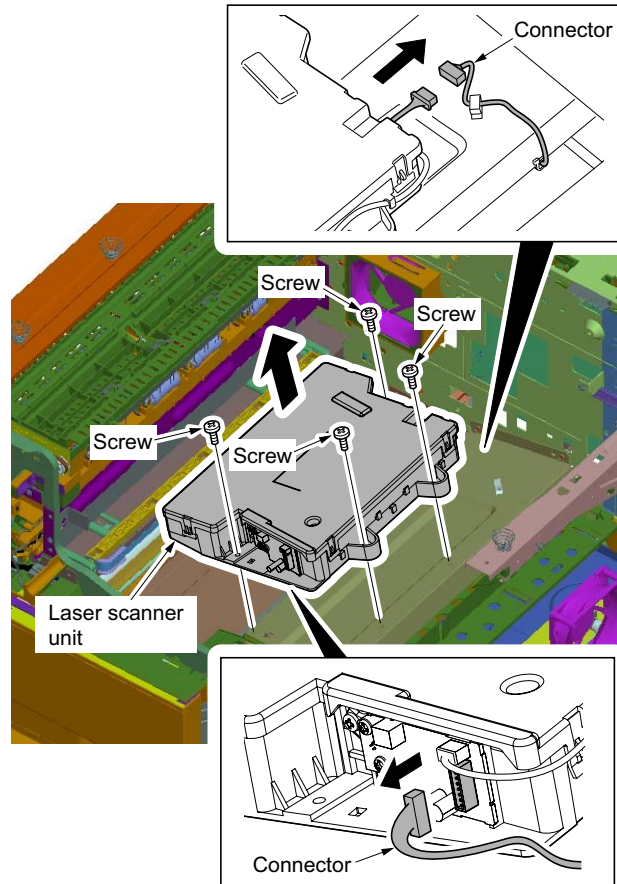


Figure 1-5-55

(5) Adjusting the longitudinal squareness (reference)

Perform the following adjustment if the leading and trailing edges of the copy image are laterally skewed (lateral squareness not obtained).

Caution:

Adjust the deflection in the paper at the registration roller first (see page 1-3-16). Check for the longitudinal squareness of the copy image, and if it is not obtained, perform the longitudinal squareness adjustment.

Before making the following adjustment, output a VTC-PG2 pattern in maintenance item U993 to use as the original for the adjustment.

Procedure

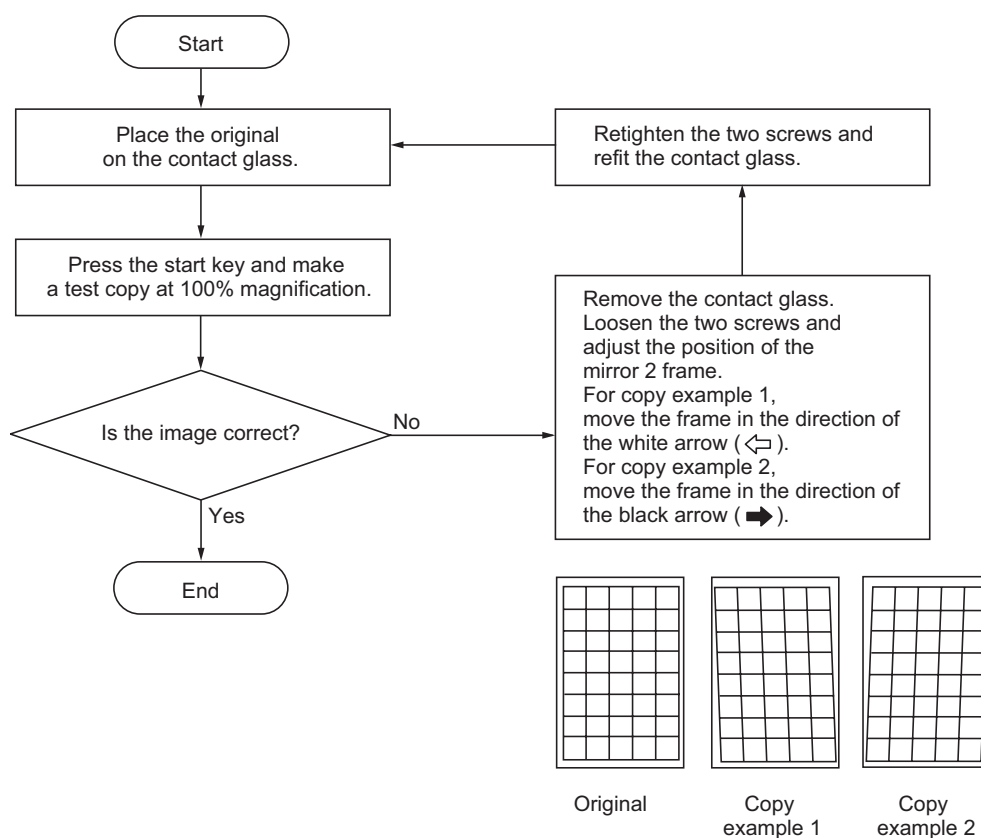


Figure 1-5-56

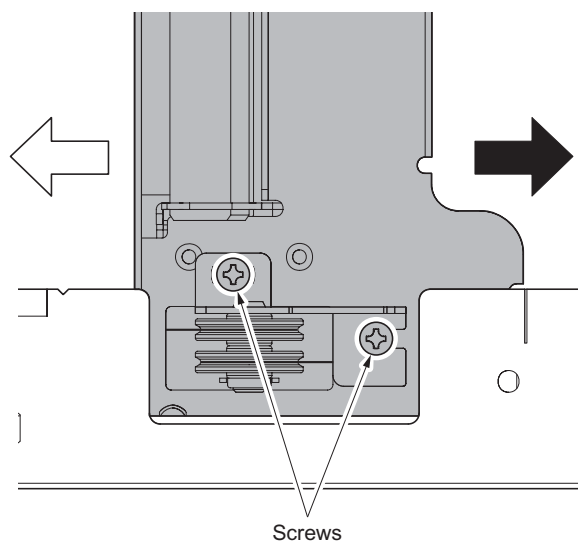


Figure 1-5-57

1-5-4 Drum section

(1) Detaching and refitting the drum unit

Follow the procedure below to replace the drum unit.

Cautions

Avoid direct sunlight or strong light when detaching and refitting the drum unit.
Never touch the drum surface when holding the drum unit.

Procedure

1. Open the front cover and left cover. Remove the waste toner box and toner container.
2. Remove the screw holding the developing release lever.
3. Pull the developing release lever and release the developing unit.

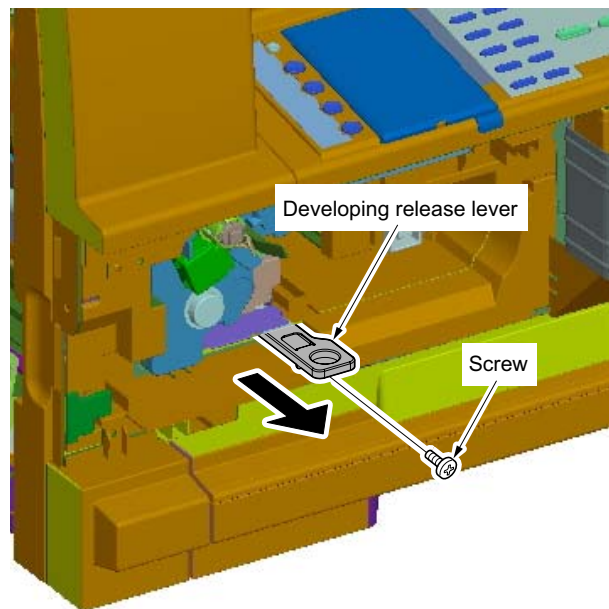


Figure 1-5-58

4. Remove the screw and the connector and then remove the drum unit.
5. Replace the drum unit and refit all the removed parts.
6. when the periodic maintenance, perform maintenance mode U251 (clearing the maintenance count) (see page 1-3-44).

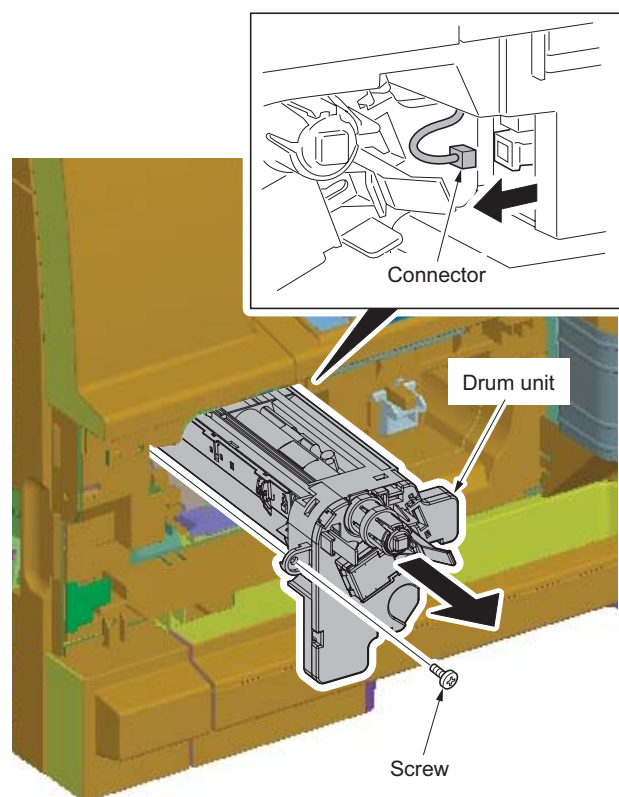


Figure 1-5-59

(2) Detaching and refitting the drum separation claws

Follow the procedure below to replace the drum separation claws.

Cautions

Avoid direct sunlight or strong light when detaching and refitting the drum unit.
Never touch the drum surface when holding the drum unit.

Procedure

1. Remove the drum unit (see page 1-5-34).
2. Push the drum separation claws with the minus driver from the top of the hole and remove the claws.
3. Replace the drum separation claws and refit all the removed parts.

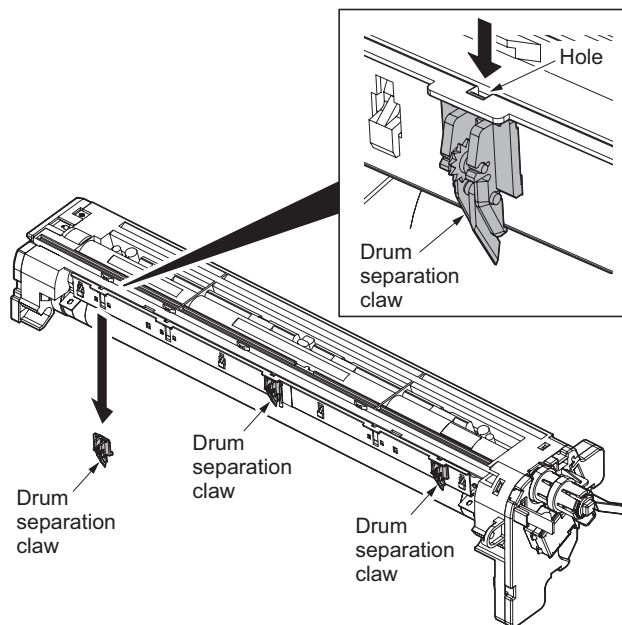


Figure 1-5-60

(3) Detaching and refitting the main charger unit

Follow the procedure below to replace the main charger unit.

Procedure

1. Open the front cover and remove the waste toner box.
2. While lifting the main charger unit toward the upper right, remove the unit.
3. While pressing the main charger release lever in the direction indicated by the arrow at the removal stopper position to release the removal stopper, remove the main charger unit from the machine.
4. Replace the main charger unit and refit all the removed parts.

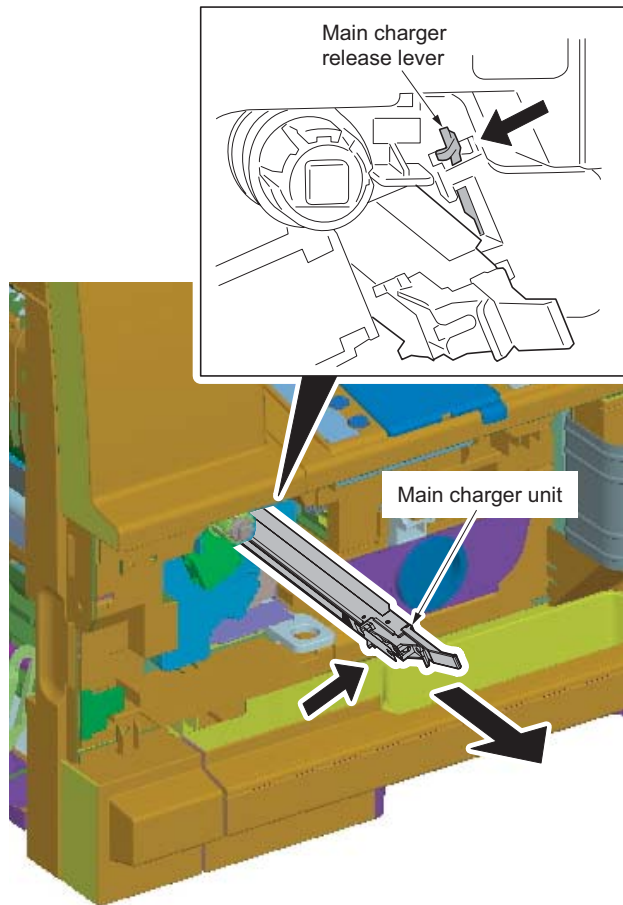


Figure 1-5-61

1-5-5 Developing section

(1) Detaching and refitting the developing unit

Follow the procedure below to replace the developing unit.

Procedure

1. Remove the drum unit (see page 1-5-34).
2. While lifting the developing unit a little, remove the unit from the machine.
3. Replace the developing unit and refit all the removed parts.
4. Perform maintenance mode U130 (initial setting for the developing unit) (see page 1-3-36).
5. Perform maintenance mode U157 (clearing the developing drive time) (see page 1-3-38).

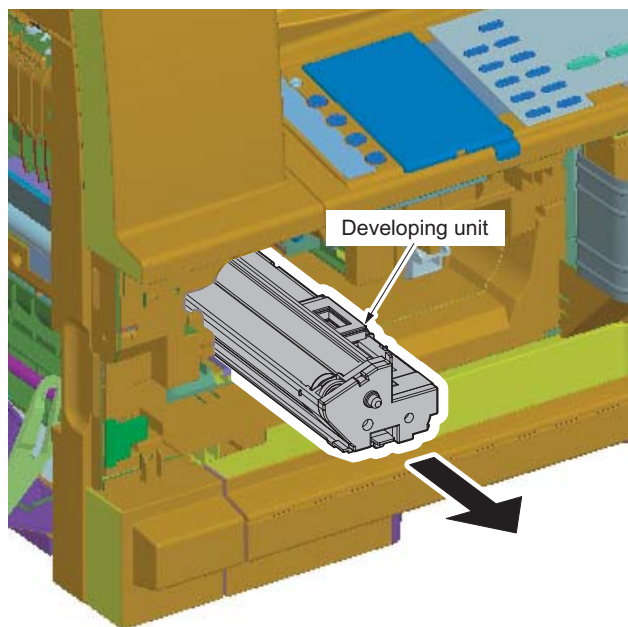


Figure 1-5-62

1-5-6 Transfer section

(1) Detaching and refitting the transfer roller

Follow the procedure below to replace the transfer roller.

Procedure

1. Remove the paper conveying unit (see page 1-5-9).
2. Remove front and rear inserted parts and remove the transfer roller unit from the paper conveying unit.

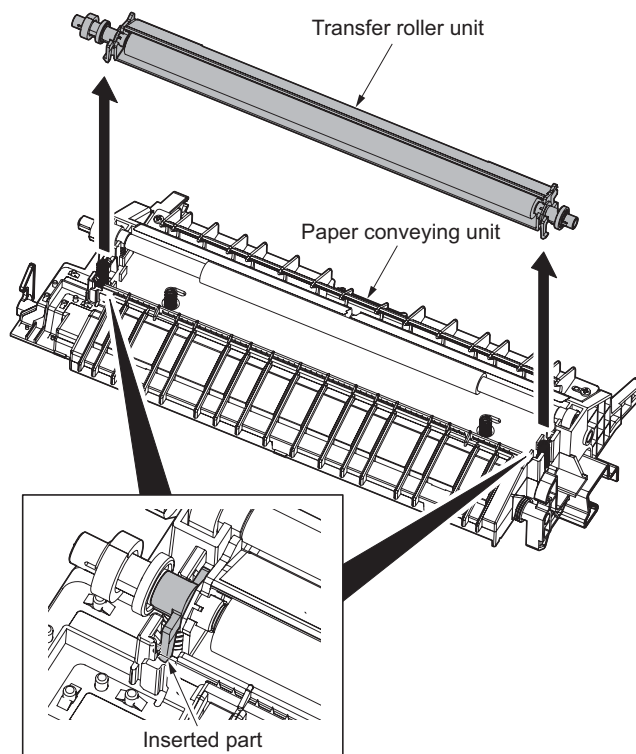


Figure 1-5-63

3. Remove two collars A, two collars B, gear, two stoppers and two bushes from transfer roller.

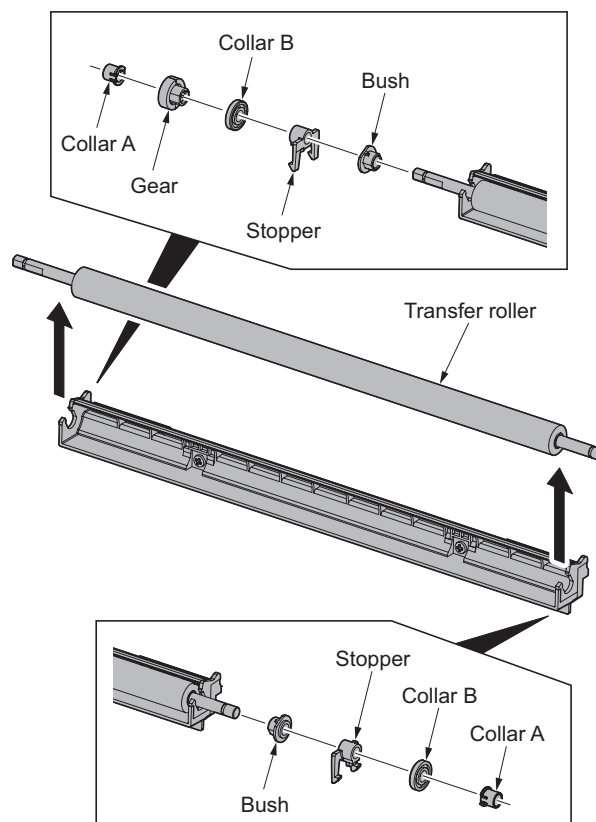


Figure 1-5-64

4. Replace the transfer roller and refit all the removed parts.
When refitting the transfer roller unit, make sure that the transfer springs are securely fit into the protrusions.

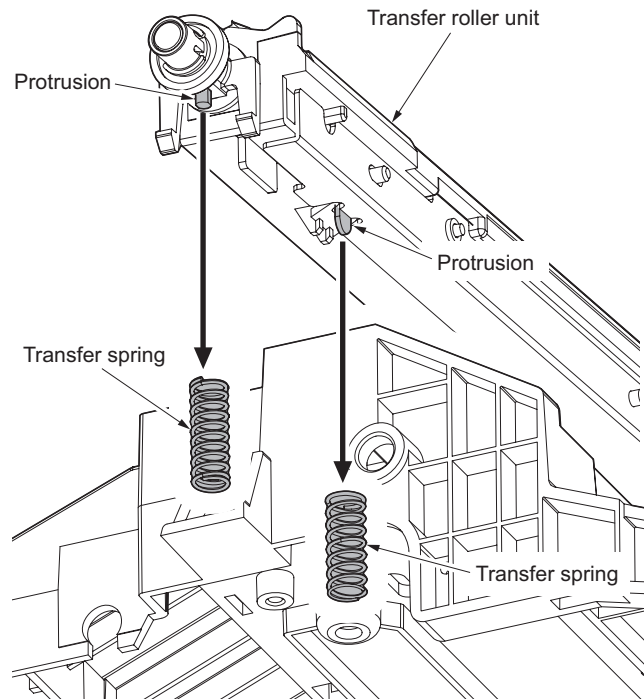


Figure 1-5-65

1-5-7 Fuser section

Caution

(1) Detaching and refitting the fuser unit

Follow the procedure below to check or replace the fuser unit.

Procedure

1. Open the front cover and left cover.
2. Remove the screw and release three inserted parts and then remove the front left cover.

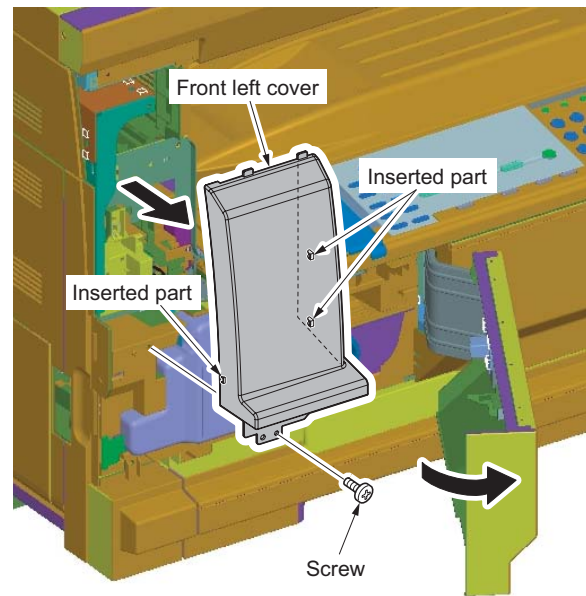


Figure 1-5-66

3. Remove the screw and two connectors and then remove the fuser unit.

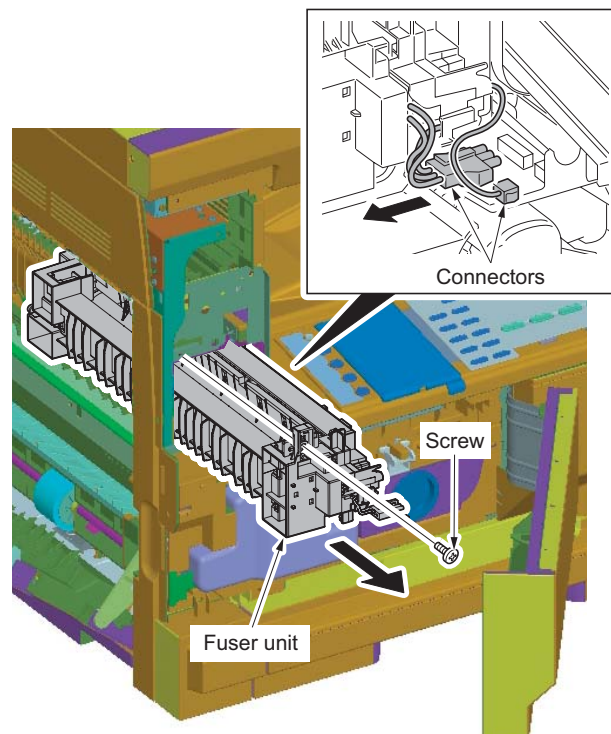


Figure 1-5-67

4. Replace the fuser unit and refit all the removed parts.
After connecting the connector, be sure to hitch the fuser thermistor wire to both the notch position and the hook of the fuser unit.

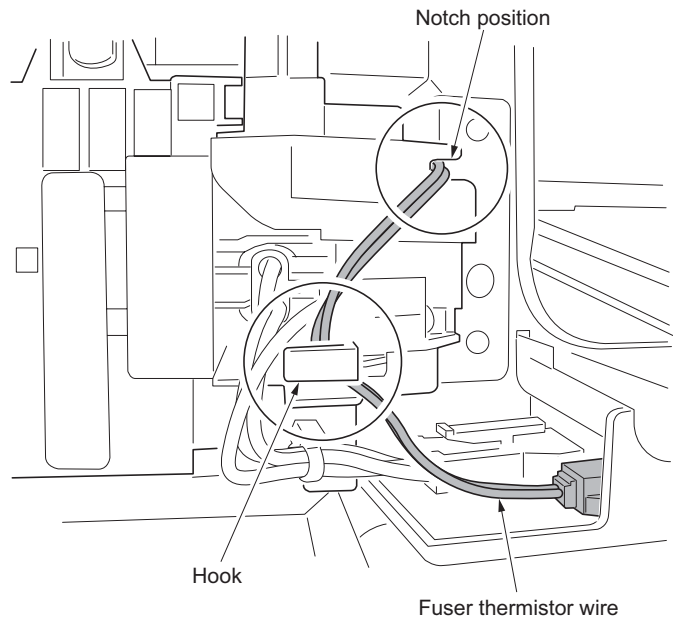


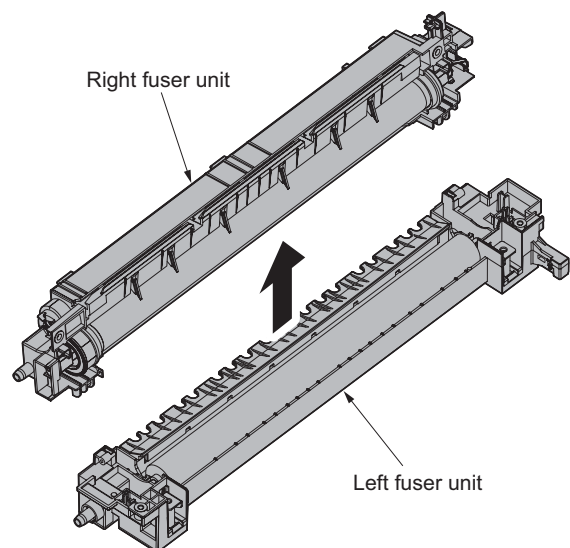
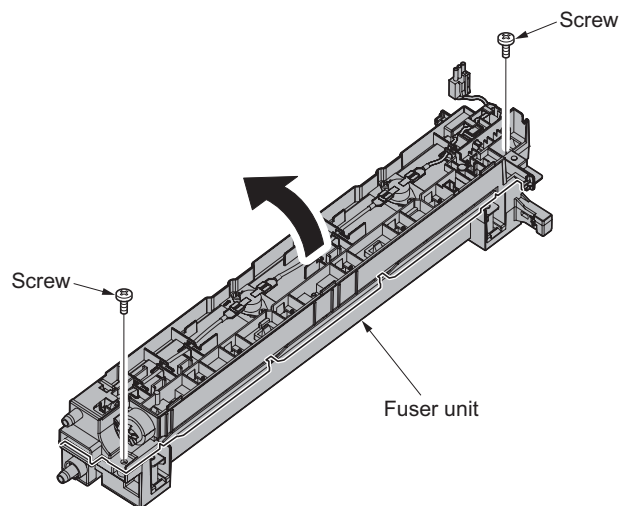
Figure 1-5-68

(2) Detaching and refitting the press roller

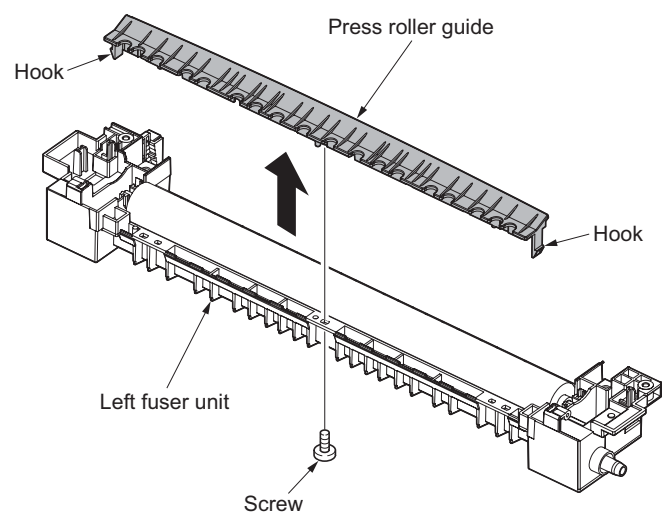
Follow the procedure below to replace the press roller.

Procedure

1. Remove the fuser unit (see page 1-5-40).
2. Remove two screws and open the fuser unit.
3. Separate the right and left fuser unit.

**Figure 1-5-69**

4. Remove the screw and release two hooks and then remove the press roller guide from the left fuser unit.

**Figure 1-5-70**

5. Remove the press roller from left fuser unit.

Cautions

Remove the press roller carefully not to scratch its surface.

When removing it, be careful not to drop and lose the bush.

6. Replace the press roller and refit all the removed parts.

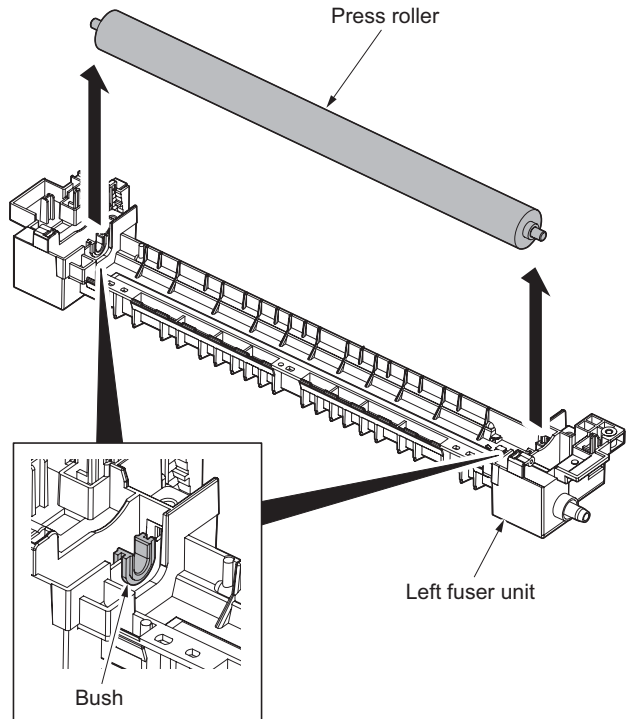


Figure 1-5-71

(3) Detaching and refitting the fuser heater

Follow the procedure below to replace the fuser heater.

Procedure

1. Remove the fuser unit (see page 1-5-40).
2. Remove two positive terminals of fuser heater wires from the fuser unit.

Caution

Remove the positive terminals while pressing their protrusions.

3. Remove two fuser heater wires from ribs of the fuser unit.

Caution

Make sure that the fuser heater wires are not removed from the positive terminals.

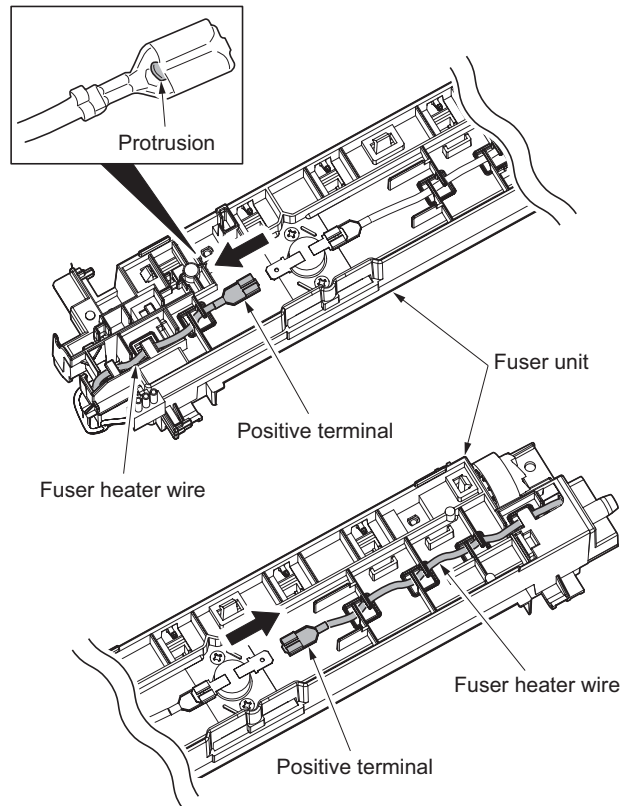


Figure 1-5-72

4. Separate the right and left fuser unit (see page 1-5-42).
5. Pull out the fuser heater wire from the rear side of the right fuser unit and stretch it straight.

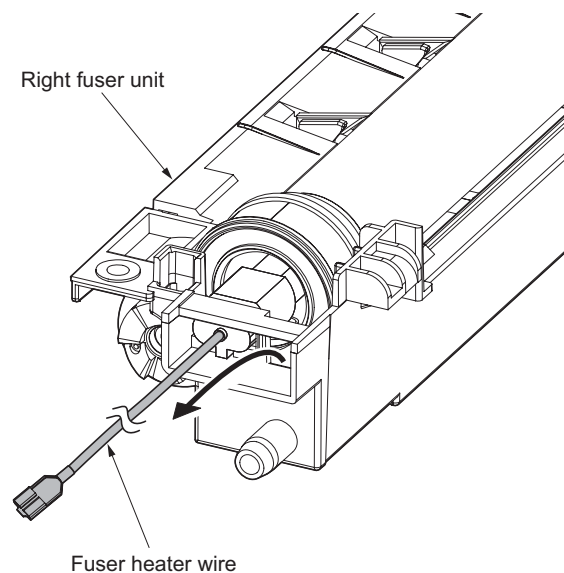


Figure 1-5-73

6. Release hooks at the front side of the right fuser unit and pull out the fuser heater.

Caution

Do not touch the glass section of the fuser heater.

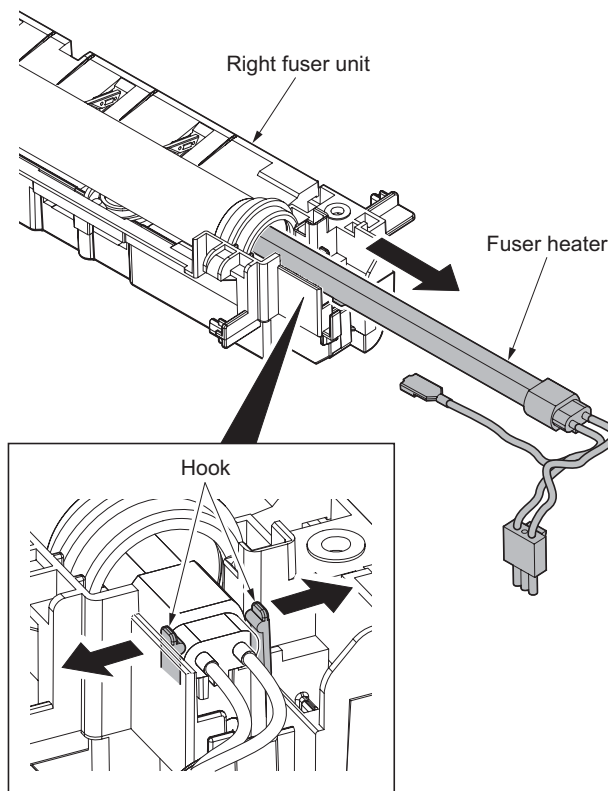


Figure 1-5-74

7. Replace the fuser heater.
8. Straighten the fuser heater wire in the rear side of the new fuser heater, and insert it from the front side of the right fuser unit.
9. Fit both the protrusions in the front and rear sides of the fuser heater into the notch positions of the right fuser unit. Insert the wire between the hooks in the front side of the right fuser unit until it clicks to secure it.

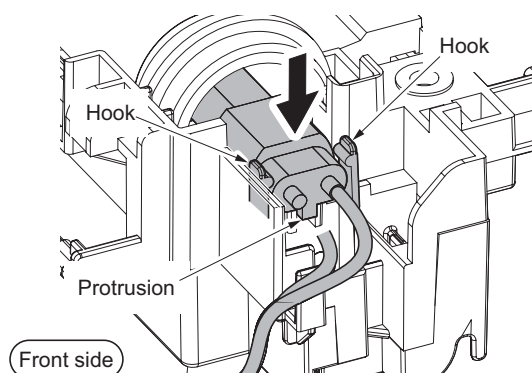
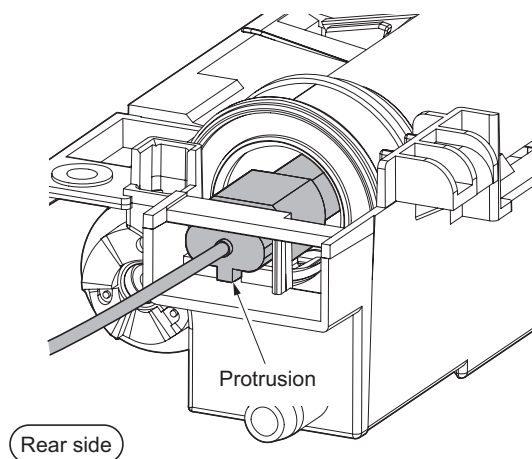


Figure 1-5-75

10. Lace the fuser heater wire in the rear side through the aperture of the right fuser unit and pull it out.
11. Refit the right and left fuser unit.

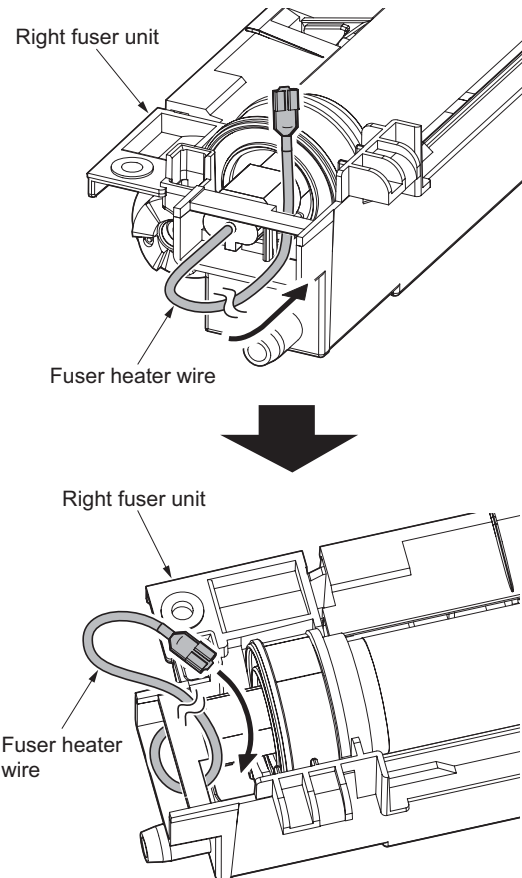


Figure 1-5-76

12. Connect front and rear positive terminal to thermostats.

Cautions

Insert the terminal all the way into the unit.
Put the slack of electric wire toward the front side of the machine.

Push each terminal and heater wire into the housing so as not to exceed the height of the rib of the fuser unit (because they may come in contact with the machine frame at the time of installation of the machine).

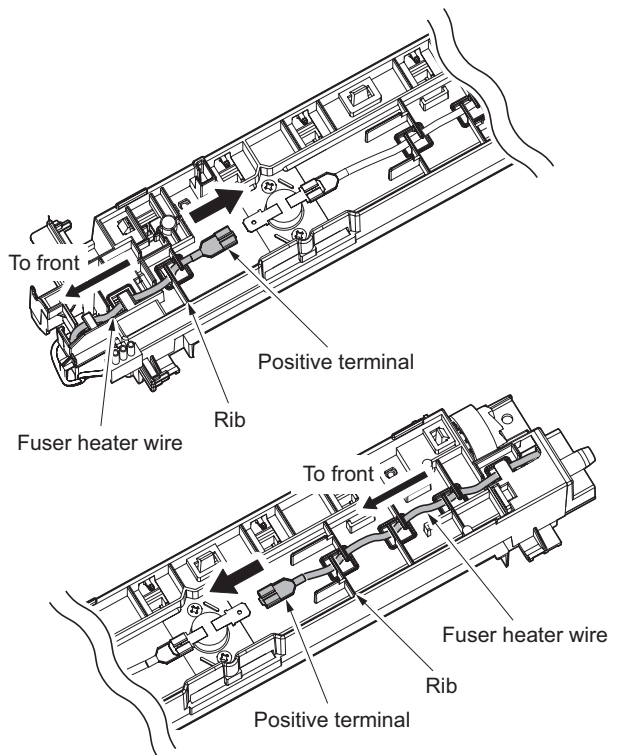


Figure 1-5-77

(4) Detaching and refitting the heat roller separation claws

Follow the procedure below to replace the heat roller separation claws.

Procedure

1. Separate the right and left fuser unit (see page 1-5-42).
2. Release four hooks and remove the fuser guide from the right fuser unit.

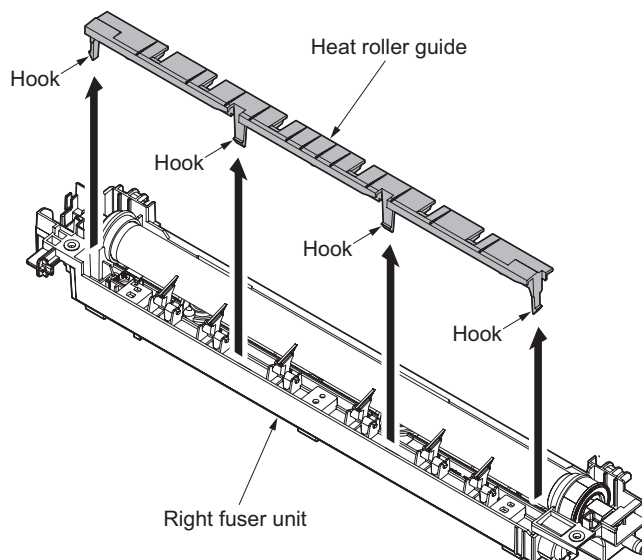


Figure 1-5-78

3. Remove the springs and remove the heat roller separation claws.

Caution

When removing them, be careful not to touch the tip of the claw.

4. Replace the heat roller separation claws and refit all the removed parts.

Caution

When fitting the separation claws, be careful not to scratch the surface of the heat roller.

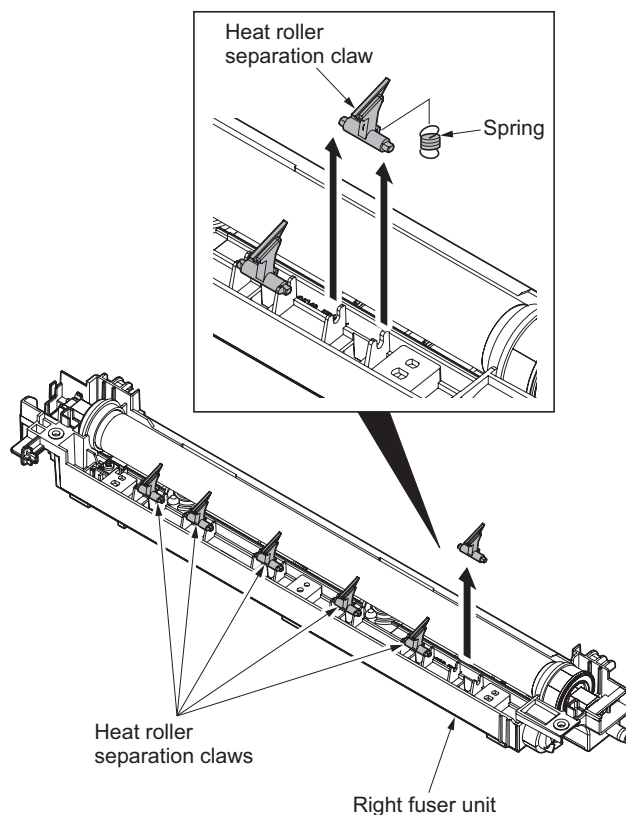


Figure 1-5-79

(5) Detaching and refitting the heat roller

Follow the procedure below to replace the heat roller.

Procedure

1. Separate the right and left fuser unit (see page 1-5-42).
2. Remove the fuser heater (see page 1-5-44).
3. Remove the heat roller separation claws (see page 1-5-47).
4. Press the heat roller bush in the rear side of the right fuser unit from outside to make the roller removable.

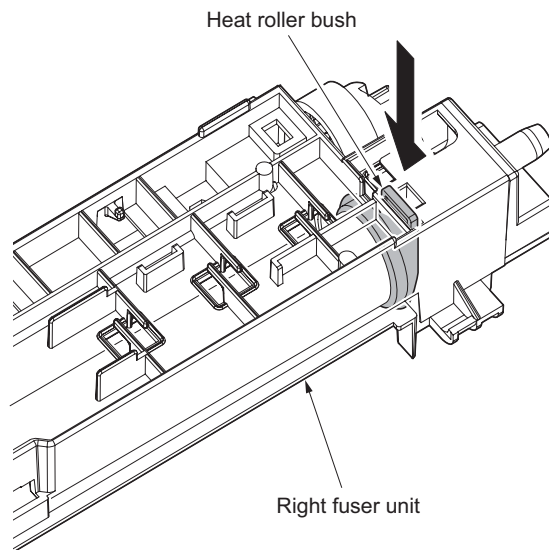


Figure 1-5-80

5. Remove the heat roller, heat roller bush and heat roller gear.

Caution

Remove the heat roller, with the heat roller bush in the front side being mounted.

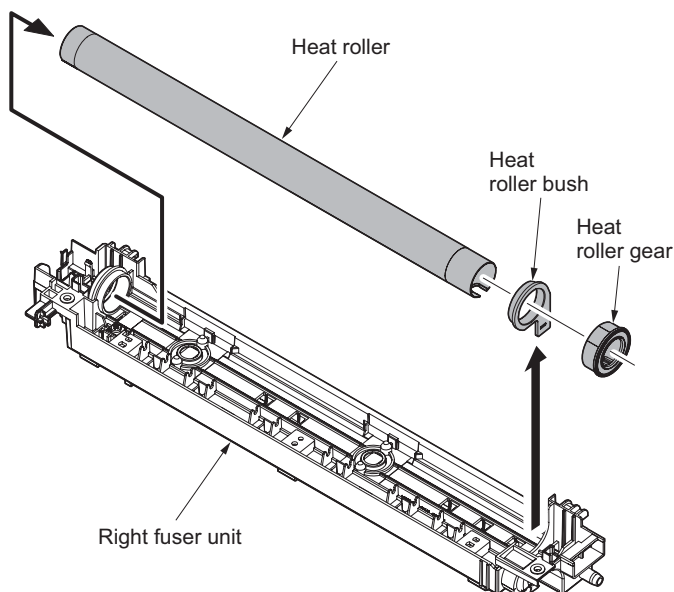


Figure 1-5-81

6. Replace the heat roller and refit all the removed parts.

Caution

When replacing the heat roller, make sure that the surface of the fuser thermistor is cleaned with alcohol and is not deformed. Also make sure that no foreign matter adheres to the fuser thermostats.

Refit the heat roller gear while pushing the idle gear in the direction indicated with the arrow. Also make sure that the gears are properly engaged.

After refitting the heat roller, push the roller lightly to check that the detection surface of the fuser thermistor comes in contact with the roller.

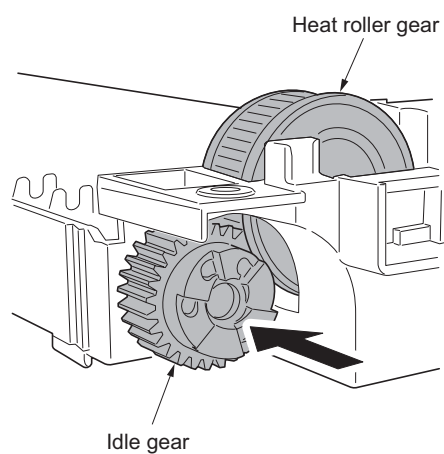
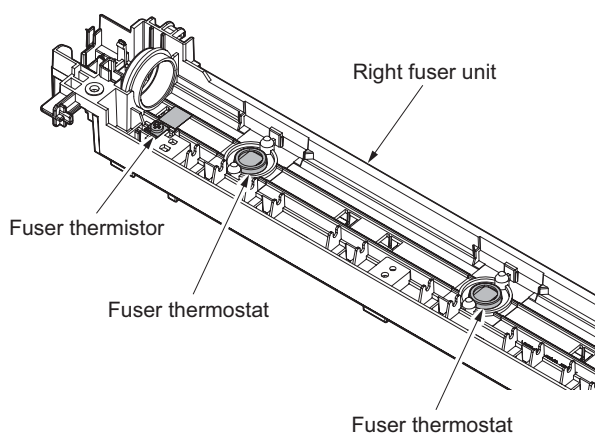


Figure 1-5-82

(6) Detaching and refitting the fuser thermistor

Follow the procedure below to replace the fuser thermistor.

Procedure

1. Separate the right and left fuser unit (see page 1-5-42).
2. Remove the heat roller (see page 1-5-48).
3. Remove the screw and remove the fuser thermistor.
4. Replace the fuser thermistor and refit all the removed parts.

Caution

Restore the fuser thermistor wire to its original correct position.

After refitting the heat roller, push the roller lightly to check that the detection surface of the fuser thermistor comes in contact with the roller.

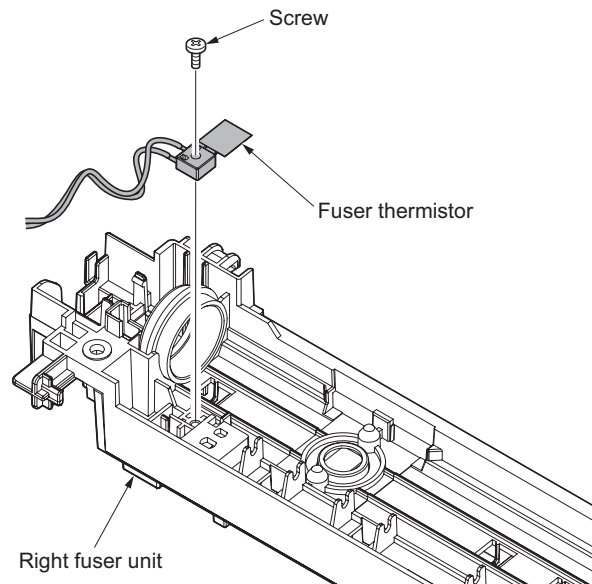


Figure 1-5-83

(7) Detaching and refitting the fuser thermostat

Follow the procedure below to replace the fuser thermostat.

Cautions

Be sure to replace it after finding the cause of failure.

If the cause is not found, do not replace only the component in question but the entire unit.

If C6000 or C6020 occurs, replace the thermostat after resolving the problem.

Before replacement, conduct continuity check for the thermostat.

Procedure

1. Remove the fuser unit (see page 1-5-40).
2. Remove two positive terminals from fuser thermostat.
3. Remove two screws and remove the fuser thermostat.
4. Replace the fuser thermostat and refit all the removed parts.

Cautions

Insert the terminal all the way into the unit.

Put the slack of electric wire toward the front side of the machine.

Push each terminal and heater wire into the housing so as not to exceed the height of the rib of the fuser unit (because they may come in contact with the machine frame at the time of installation of the machine).

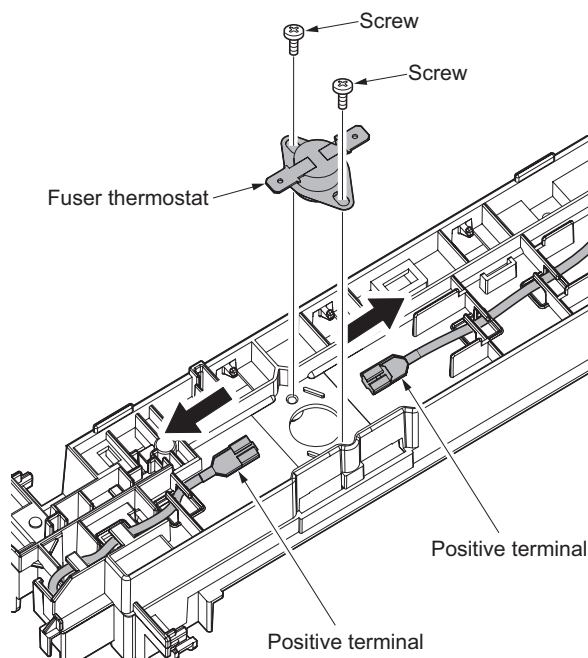


Figure 1-5-84

5. Use a thickness gauge to check that the clearance between the fuser thermostat and the heat roller is within the reference value. Reference value: 0.7 to 1.5 mm

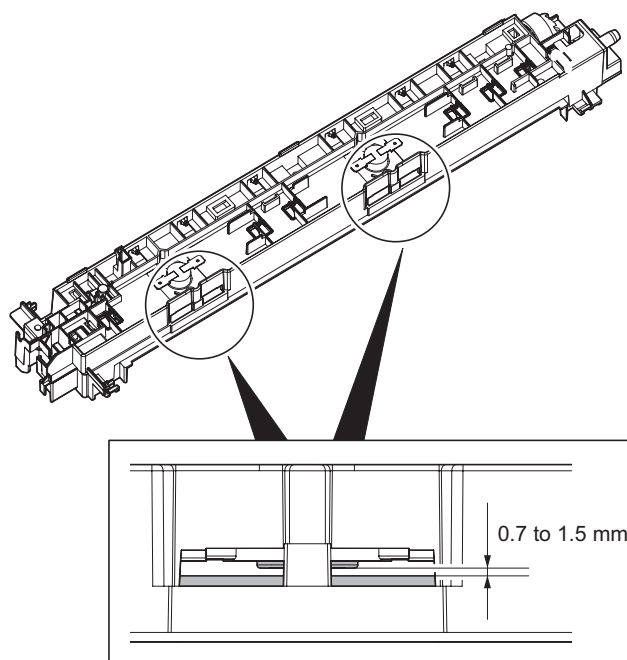


Figure 1-5-85

(8) Adjusting front position of the fuser unit (adjusting lateral squareness)

Follow the procedure below if the drum is not parallel to the fuser unit and therefore paper is not fed straight to the fuser section and the trailing edge of image on either the front or rear side becomes longer.

Procedure

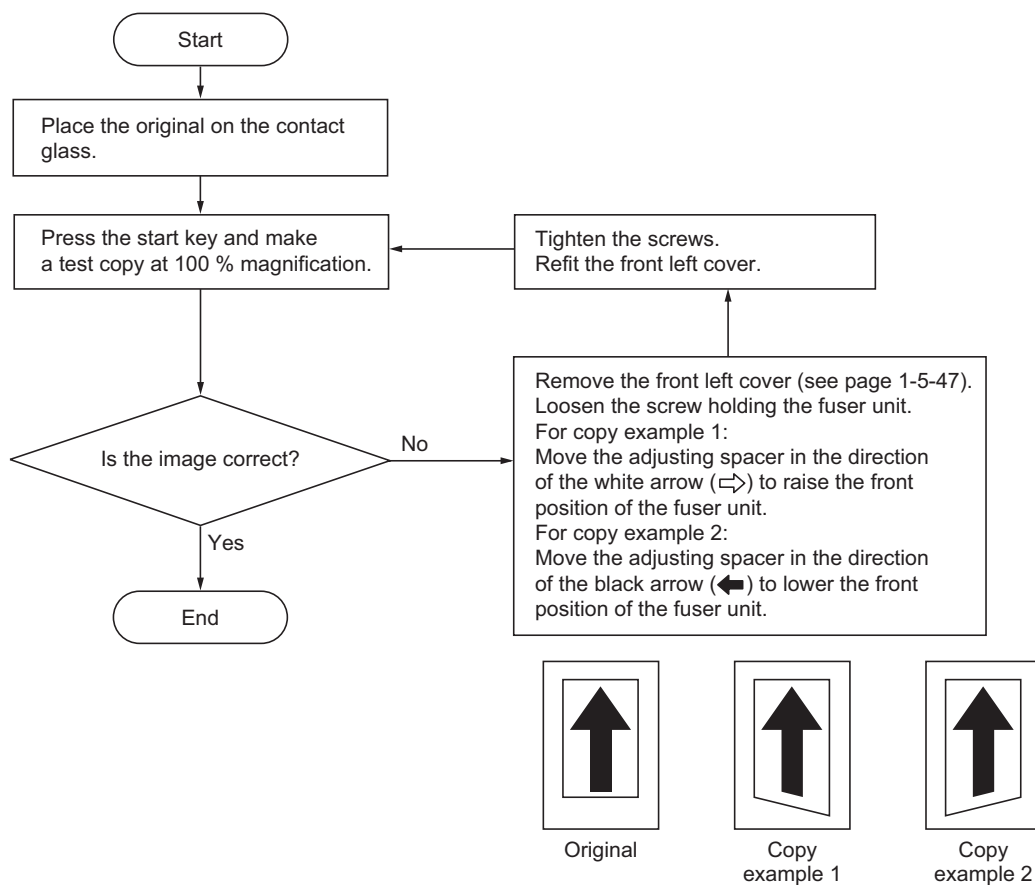


Figure 1-5-86

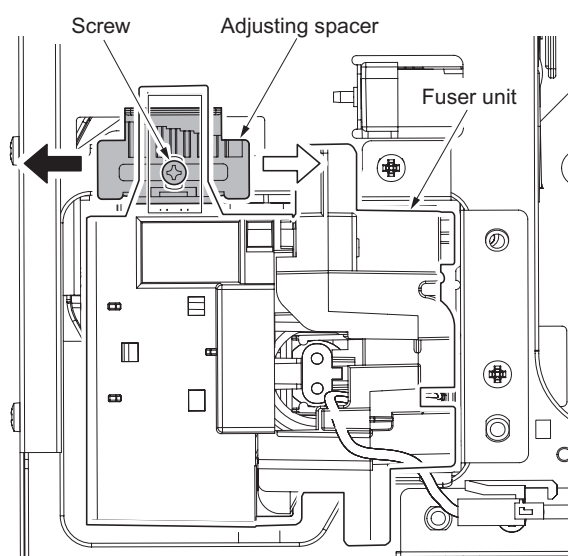


Figure 1-5-87

1-5-8 Others

(1) Detaching and refitting the eject unit

Follow the procedure below to replace the eject unit.

Procedure

1. Remove the rear cover (see page 1-5-6).
2. Remove YC14 connector of the main/engine PWB.
3. Remove the wire of the connector from the ribs.

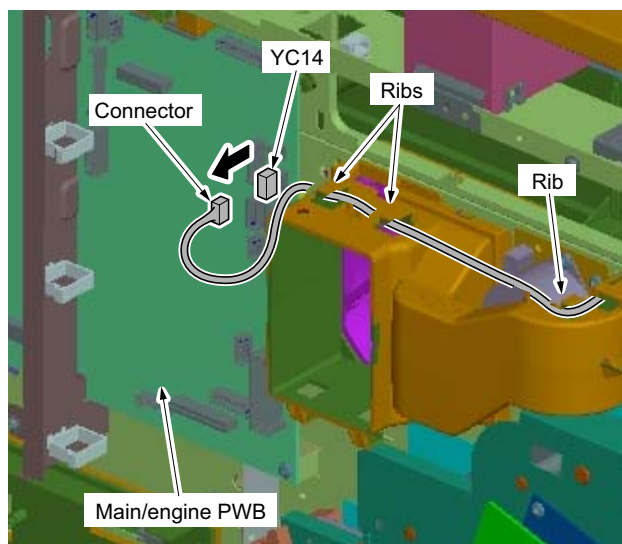


Figure 1-5-88

4. Remove the front left cover (see page 1-5-40).
5. Remove the left middle cover (see page 1-5-19).
6. Remove the eject cover (see page 1-5-30).
7. Remove the screw. Slide the eject unit toward the front side and pull out the inserted part section.

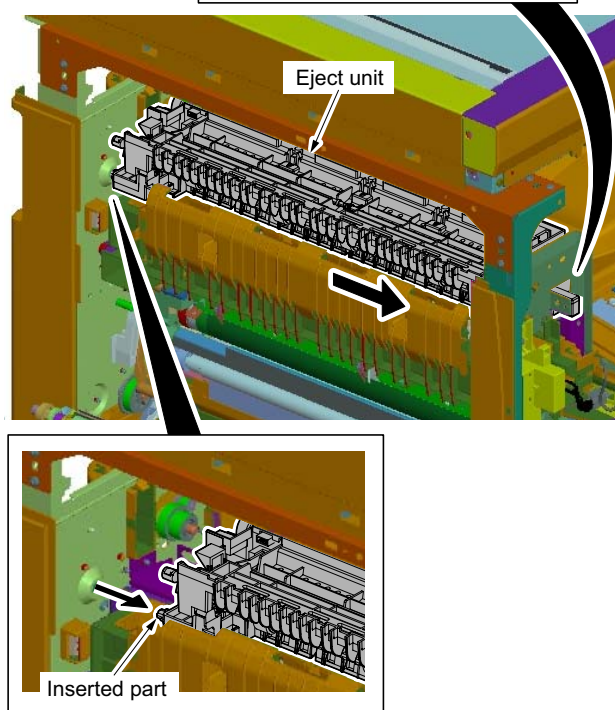
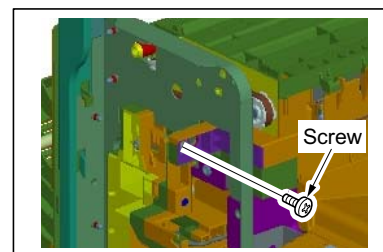


Figure 1-5-89

8. Lift the eject unit, pull at the rear side of the unit first, and remove the unit from the machine.
9. Replace the eject unit and refit all the removed parts.

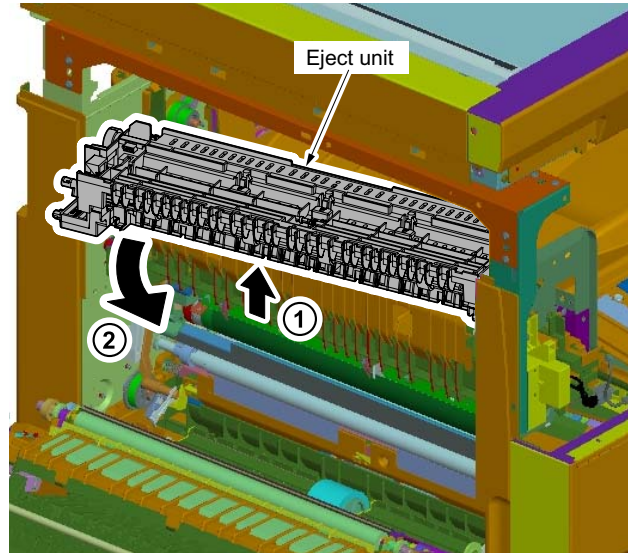


Figure 1-5-90

(2) Direction of installing the principal fan motors

When detaching or refitting the cooling fan motor 1 or 2, be careful of the airflow direction (intake or exhaust).

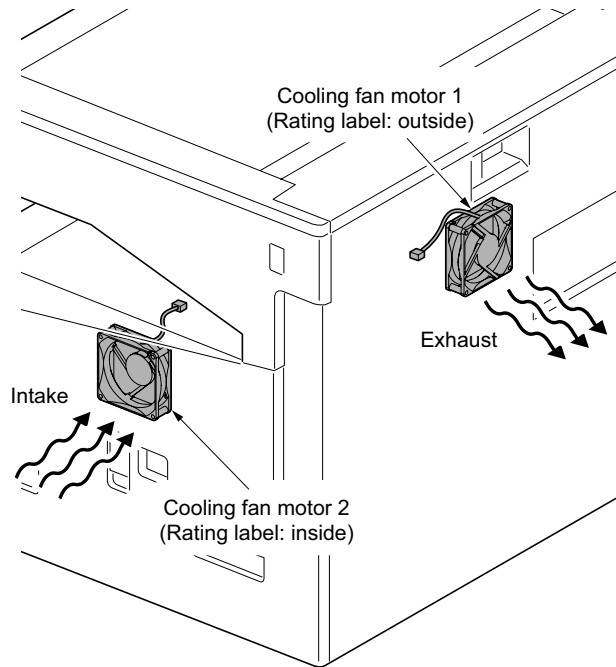


Figure 1-5-91

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1-6-1 Upgrading the firmware

Follow the procedure below to upgrade the firmware of main, engine and MMI.

Firmware upgrading requires the following tools:

Flash DIMM

Procedure

1. Perform maintenance item U000 (maintenance report output) and check U019 ROM version.
2. Turn the main power switch off and unplug the power cable from the wall outlet.
3. Remove five screws and remove the rear cover.
4. Change the position of the jumper switch (SW1) on the main/engine PWB from upper side (3-2) to lower side (2-1).
5. Insert the DIMM into the DIMM slot on the main/engine PWB.
6. Insert the power plug and turn the main power switch on. Upgrading firmware starts.

Caution:

Never turn the main power switch off during upgrading.

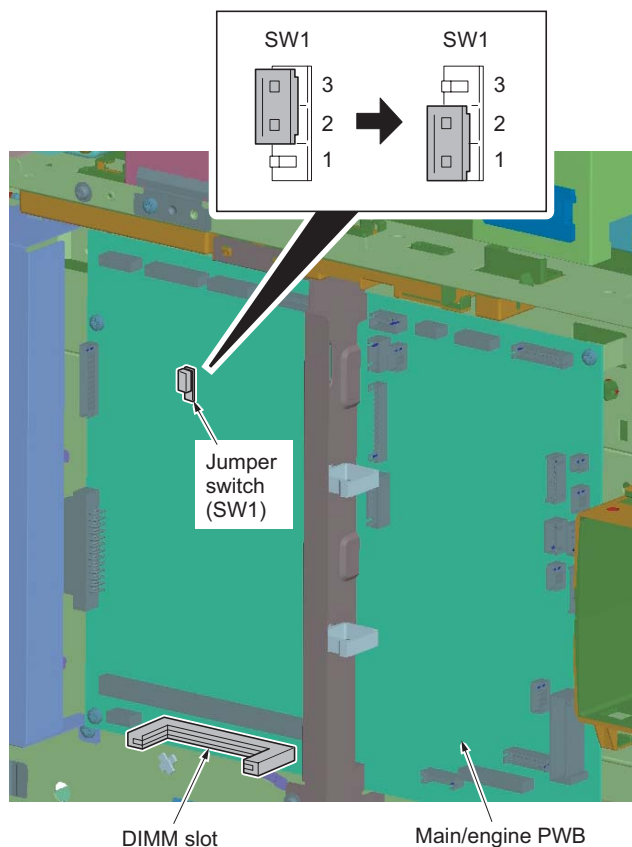


Figure 1-6-1

7. When the upgrade operation is complete, the checksum will be displayed.
8. Turn the main power switch off and unplug the power cable from the wall outlet.
9. Remove the DIMM from the main/engine PWB, and return the jumper switch (SW1) to its original position.
10. Refit the rear cover.
11. Insert the power plug and turn the main power switch on.
12. Perform maintenance item U000 (maintenance report output) and check that U019 ROM version has been upgraded.

1-6-2 Adjustment-free variable resistors (VR)

The variable resistors listed below are set at the factory prior to shipping and cannot be adjusted in the field.

High voltage PWB: VR401

APC PWB: VR1

1-6-3 Remarks on main/engine PWB replacement

When replacing the main/engine PWB, remove the EEPROM (YC37) and EEPROM (YC38) from the PWB that has been removed and then reattach it to the new PWB.

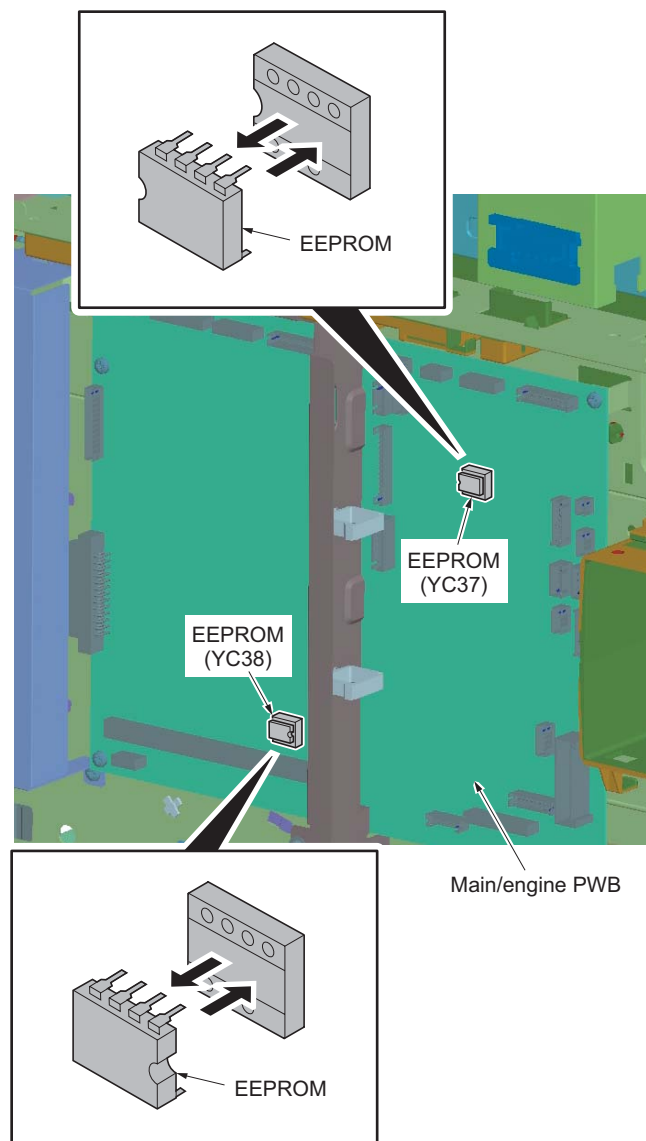


Figure 1-6-2

1-6-4 Upgrading the printing system firmware

(1) Upgrade using PC/USB

It is necessary to have GDI printer driver installed.

Please make sure the OS of PC is WINDOWS2000 or WINDOWS XP.

Please make sure not to turn off the main power switch or pull out the USB cable during upgrading.

Procedure

Check and set the driver

1. [Start] → [Setting] → [Printer] → find [Kyocera TASKalfa 180 GX]
2. Select [Kyocera TASKalfa 180 GX], click right button of the mouse to select [Shared], then check [Share]
3. Open Command prompt and type `c:\>hostname (EX: aaaa)`
4. To apply printer to LPT2, type `c:\>net use lpt2 \\aaaa\TASKalfa180 (or 220)`
5. Check to see if this is done correctly. Type `c:\>net use`
6. If displayed on the screen, [OK LPT2 \\aaaa\TASKalfa180 (or 220) Microsoft Windows Network], setting is finished.

Upgrade printer firmware

7. Put the right printer firmware right under the C drive.
8. Open Command prompt and type `c:\>copy /b file_name* lpt2`
(Put the file name of printer firmware in * section.)
9. [Downloading] is displayed on main unit LCD (Now downloading).
10. After that, [Downloaded] is displayed (Download is completed).
11. After completing the download, printer is started up again.
12. Check the status report if the version is upgraded.

(2) Upgrade using DIMM

Procedure

1. Turn the main power switch off and unplug the power cable from the wall outlet.
2. Remove Printer Board from the main unit and insert the DIMM into the slot in Printer Board.
3. Change the position of the jumper switch (SW1) on the Printer Board from NORMAL to BOOT.
4. Insert the Printer Board into the main unit.
5. Insert the power plug and turn the main power switch on. Upgrading firmware starts. During upgrading the firmware, LED (D3) on Printer Board will be blinking.
6. After completion of the version up, LED (D3) stops to blink and lights up.
7. Turn the main power switch off and unplug the power cable from the wall outlet.
8. Remove Printer Board from the main unit and remove DIMM from Printer Board.
9. Return the jumper switch (SW1) to its original position.
10. Insert Printer Board into the main unit.
11. Check the status report if the version is upgraded.

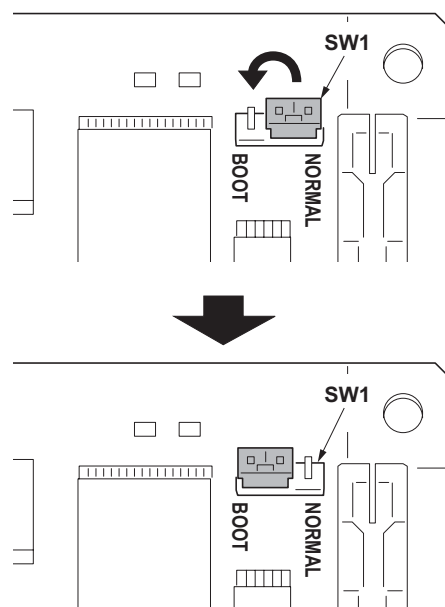


Figure 1-6-3

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2-1-1 Paper feed section

The paper feed section conveys paper from the cassette or MP tray to the left and right registration rollers, at which point secondary feed takes place and the paper travels to the transfer section in sync with the printing timing.

Cassette can hold up to 300 (80 g/m²) sheets of paper. Paper is fed from the cassette by the rotation of the forwarding pulley and paper feed pulley. The separation pulley prevents multiple sheets from being fed at one time, via the torque limiter. The MP tray can hold up to 100 (80 g/m²) sheets of paper. Paper is fed from the MP tray by the rotation of the MP paper feed pulley.

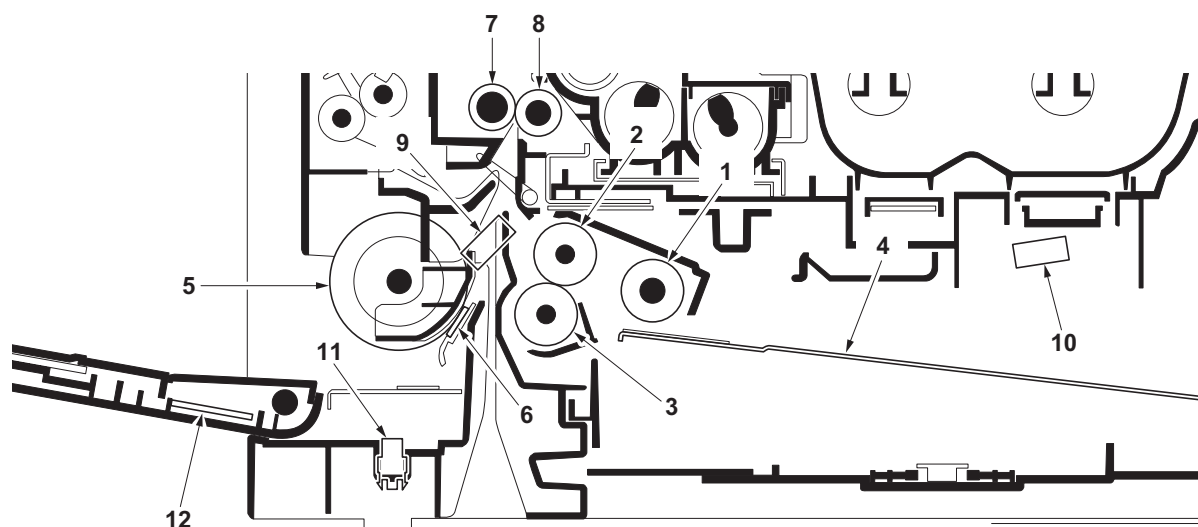


Figure 2-1-1 Paper feed section

- | | |
|--------------------------|--|
| (1) Forwarding pulley | (7) Left registration roller |
| (2) Paper feed pulley | (8) Right registration roller |
| (3) Separation pulley | (9) Registration switch (RSW) |
| (4) Cassette base | (10) Paper switch (PSW) |
| (5) MP paper feed pulley | (11) MP paper switch (MPPSW) |
| (6) MP separation pad | (12) MP paper size width switch (MPPWSW) |

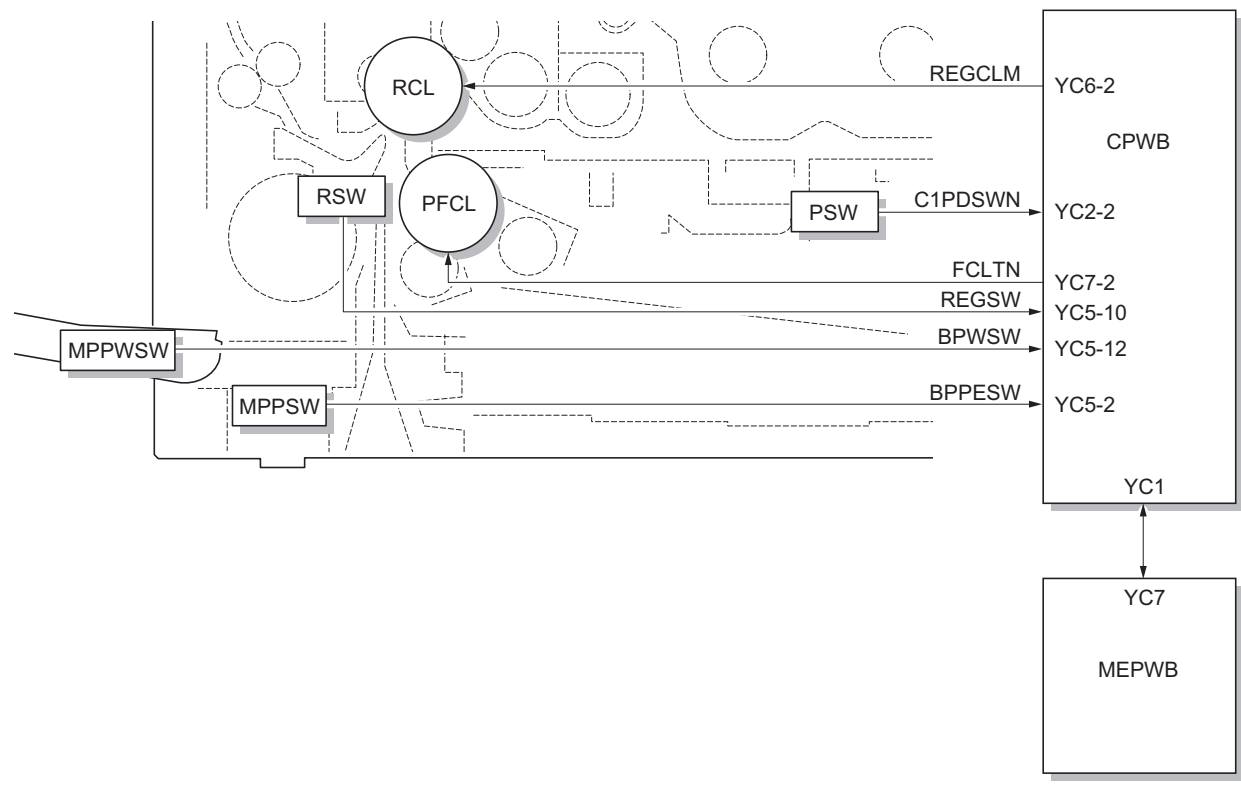


Figure 2-1-2 Paper feed section block diagram

2-1-2 Optical section

The optical section consists of the image scanner section for scanning and the laser scanner section for printing.

(1) Image scanner section

The original image is illuminated by the exposure lamp (EL) and scanned by the CCD PWB (CCDPWB) in the image scanning unit via the three mirrors, the reflected light being converted to an electrical signal.

The scanner and mirror frames travel to scan on the optical rails on the front and rear of the machine to scan from side to side. The speed of the mirror frames is half the speed of the scanner.

When the DP is used, the scanner and mirror frames stop at the DP original scanning position to start scanning.

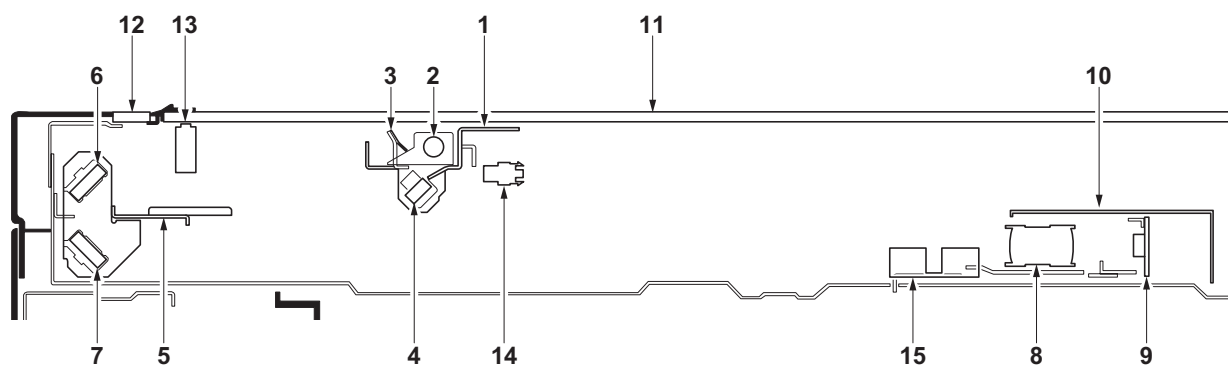


Figure 2-1-3 Image scanner section

- | | |
|------------------------|--|
| (1) Mirror 1 frame | (9) CCD PWB (CCDPWB) |
| (2) Exposure lamp (EL) | (10) ISU cover |
| (3) Mirror 1 | (11) Contact glass |
| (4) Scanner reflector | (12) Slit glass |
| (5) Mirror 2 frame | (13) Home position switch (HPSW) |
| (6) Mirror 2 | (14) Original detection switch (ODSW) |
| (7) Mirror 3 | (15) Original size detection sensor (OSDS) |
| (8) ISU | |

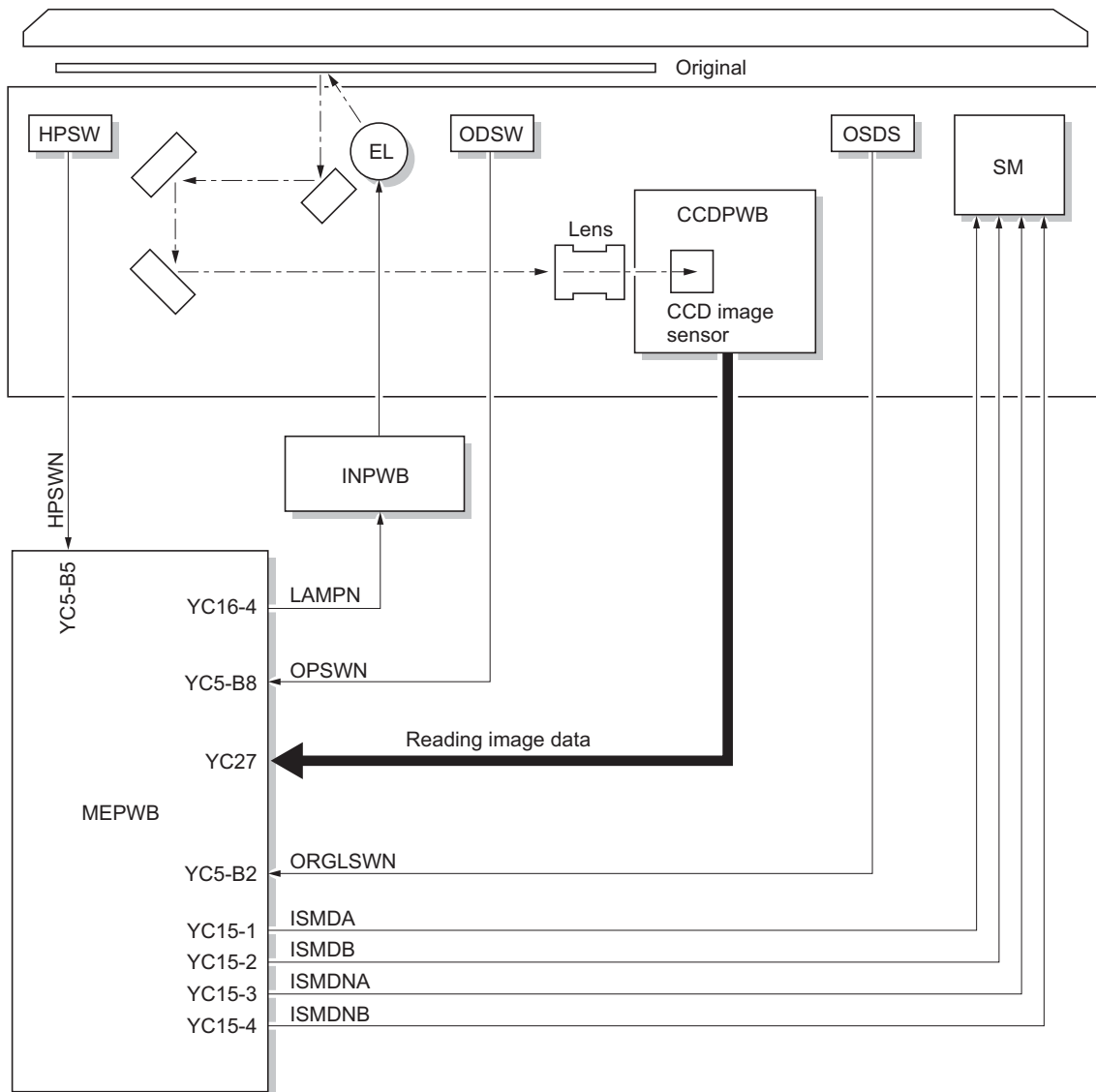


Figure 2-1-4 Image scanner section block diagram

(2) Laser scanner section

The image data scanned by the CCD PWB (CCDPWB) is processed on the main PWB (MPWB) and transmitted as image printing data to the laser scanner unit (LSU). By repeatedly turning the laser on and off, the laser scanner unit forms a latent image on the drum surface.

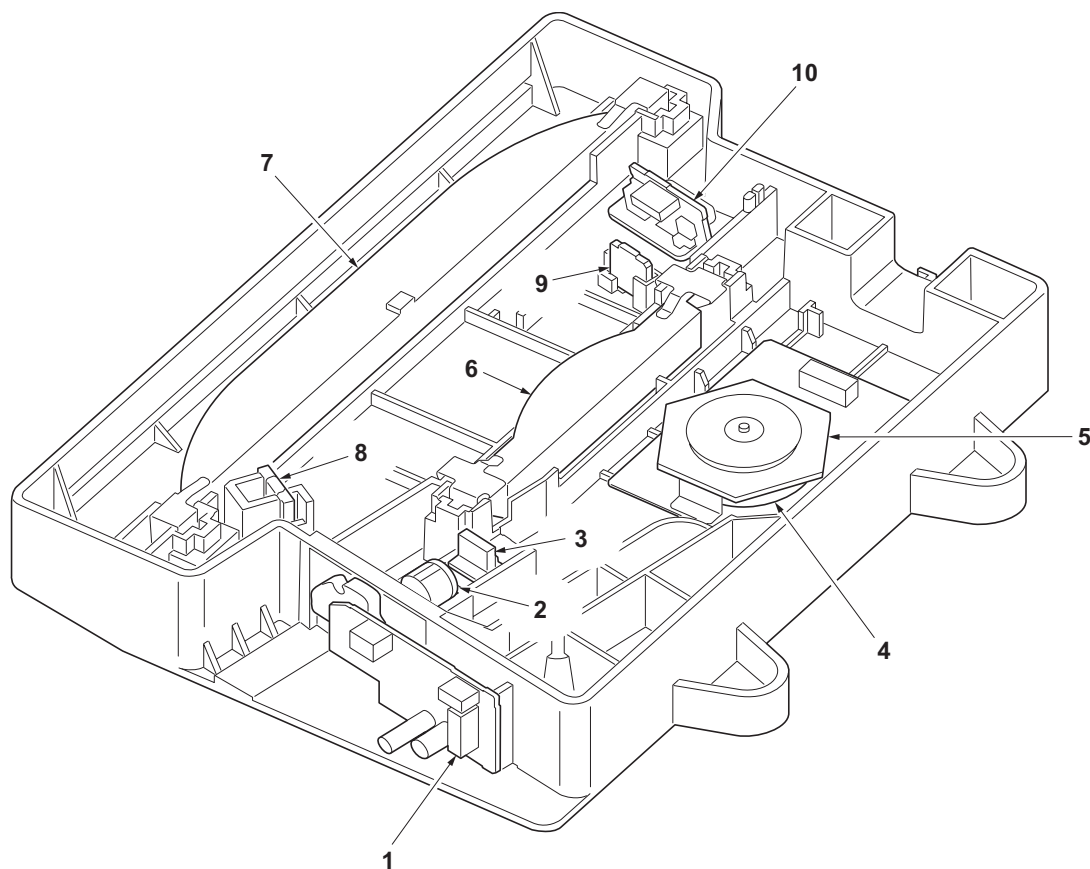


Figure 2-1-5 Laser scanner section

- (1) APC PWB (APCPWB)
- (2) Laser diode
- (3) Cylindrical lens
- (4) Polygon motor (PM)
- (5) Polygon mirror
- (6) f θ lens
- (7) f θ lens
- (8) PD sensor mirror
- (9) Cylindrical correcting lens
- (10) PD PWB (PDPWB)

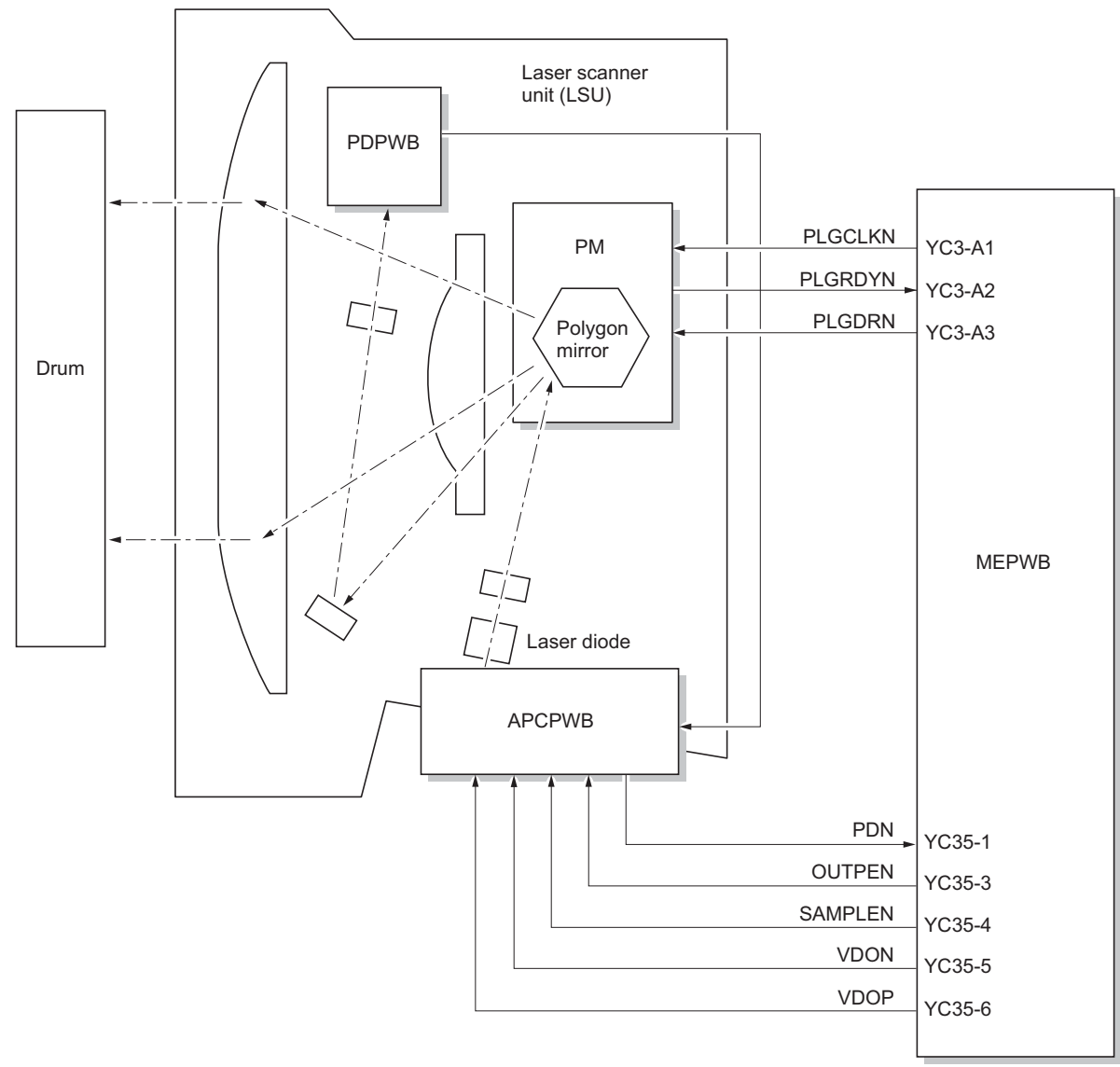


Figure 2-1-6 Laser scanner section block diagram

2-1-3 Drum section

The drum section consists of the drum, main charger section, cleaning section and cleaning lamp.

The main charger section consists of main charger wire and main charger grid, and the drum is charged by a high voltage applied to the main charger wire.

The cleaning section consists of the cleaning blade and cleaning roller that removes residual toner from the drum surface after the transfer process, and the cleaning spiral that carries the residual toner back to the waste toner box.

The cleaning lamp (CL) consists of LEDs which remove residual charge from the drum surface.

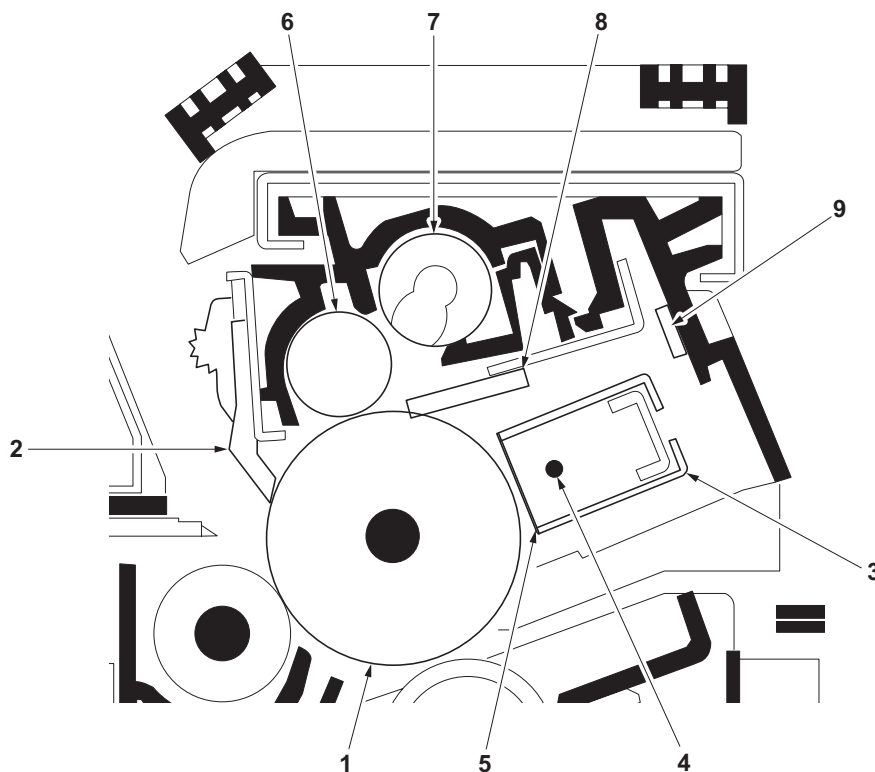


Figure 2-1-7 Drum section

- (1) Drum
- (2) Drum separation claws
- (3) Main charger unit
- (4) Main charger wire
- (5) Main charger grid
- (6) Cleaning roller
- (7) Cleaning spiral
- (8) Cleaning blade
- (9) Cleaning lamp (CL)

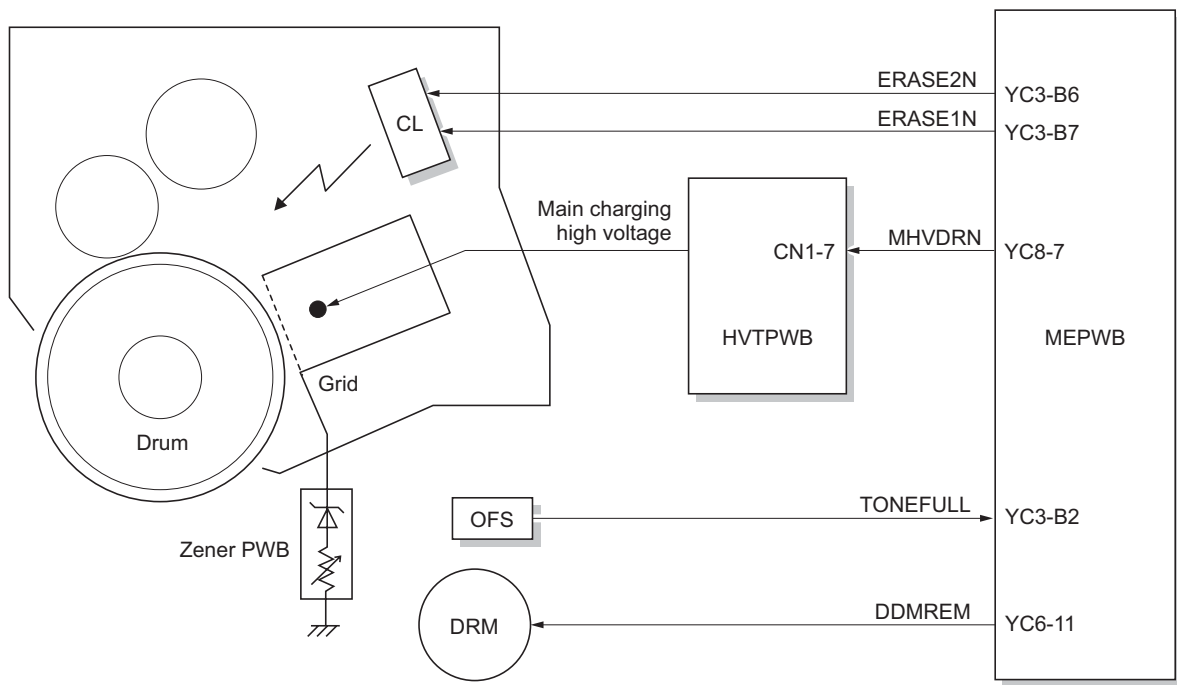


Figure 2-1-8 Drum section block diagram

2-1-4 Developing section

The developing section consists of the developing unit and the toner container.

The developing unit consists of the developing sleeve where a magnetic brush is formed, the magnetic toner blade and the developing spirals that agitate the toner.

Also, the toner container sensor (TCS) checks whether or not toner remains in the toner container.

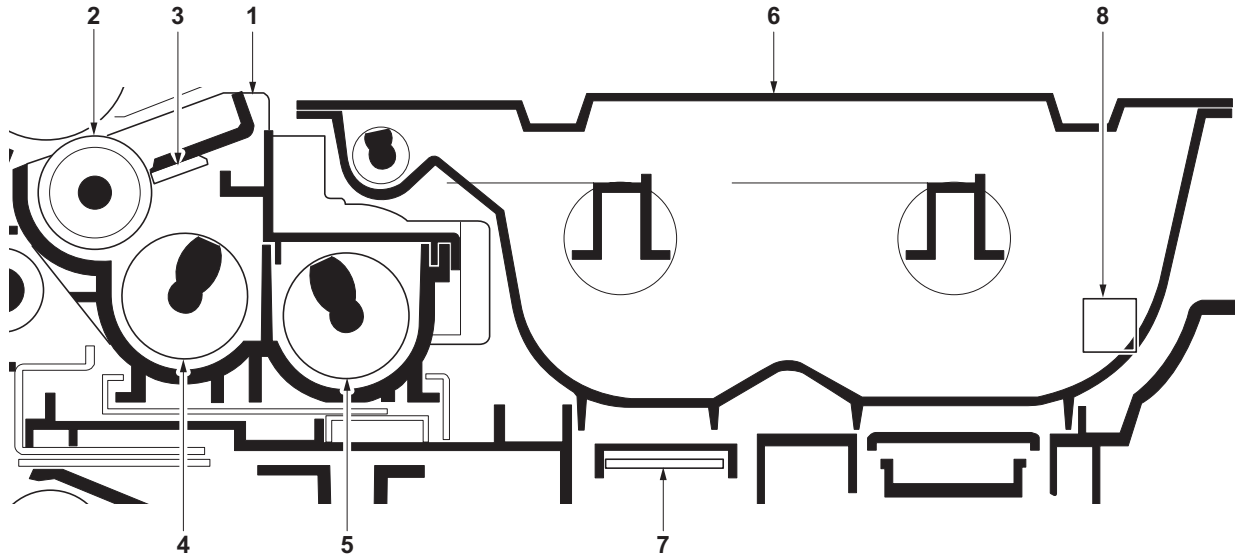


Figure 2-1-9 Developing section

- (1) Developing unit
- (2) Developing sleeve
- (3) Magnetic toner blade
- (4) Left developing spiral
- (5) Right developing spiral
- (6) Toner container
- (7) Toner container sensor (TCS)
- (8) Toner container detection switch (TCDSW)

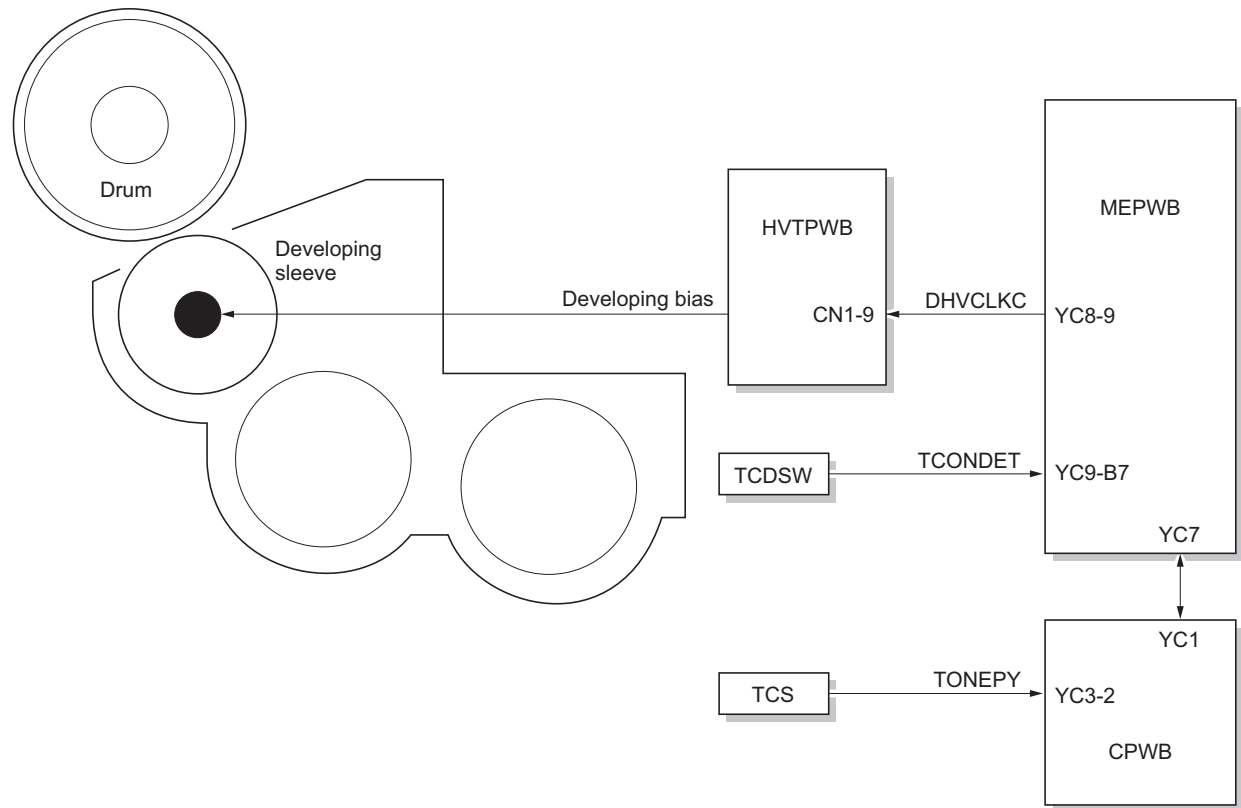


Figure 2-1-10 Developing section block diagram

(1) Single component developing system

This machine uses the single component developing system, and reversal processing is performed with a + charged drum and a + charged magnetic toner.

With the single component developing system, toner is electrically charged by friction with the developing sleeve and + charged when it passes through the magnetic toner blade. The toner that has passed through the magnetic toner blade forms a uniform layer on the developing sleeve. When the toner layer comes to the location where the developing sleeve is the nearest to the drum, toner moves between the drum and the developing sleeve by an electric field of the magnetic pole. Then, when the developing sleeve rotates and passes through the nearest location to the drum, on the portion of the drum that has been exposed to light, toner is attracted toward the drum by potential difference between the developing bias and the drum surface and development is performed. On the other hand, on the portion of the drum that has not been exposed to light, toner is attracted toward the sleeve and development is not performed. When toner comes to an area where the gap between the drum and the developing sleeve is large, an electric field disappears and toner does not leave the developing sleeve. Development is complete.

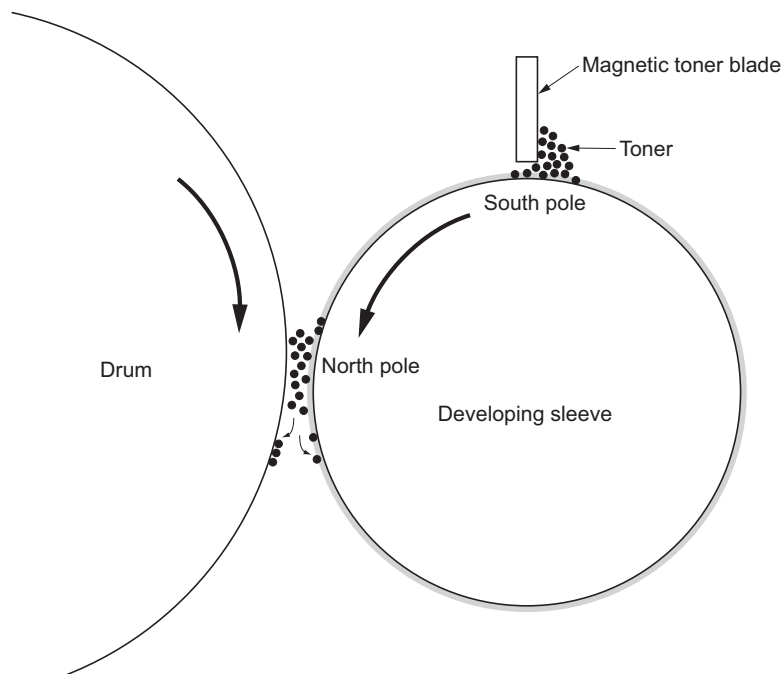


Figure 2-1-11 Single component developing system

2-1-5 Transfer and separation sections

The transfer and separation sections consists of the transfer roller, separation electrode and drum separation claws. A high voltage generated by the high voltage PWB (HVTPWB) is applied to the transfer roller for transfer charging. Paper after transfer is separated from the drum by applying separation bias that is output from the high voltage PWB (HVTPWB) to the separation electrode.

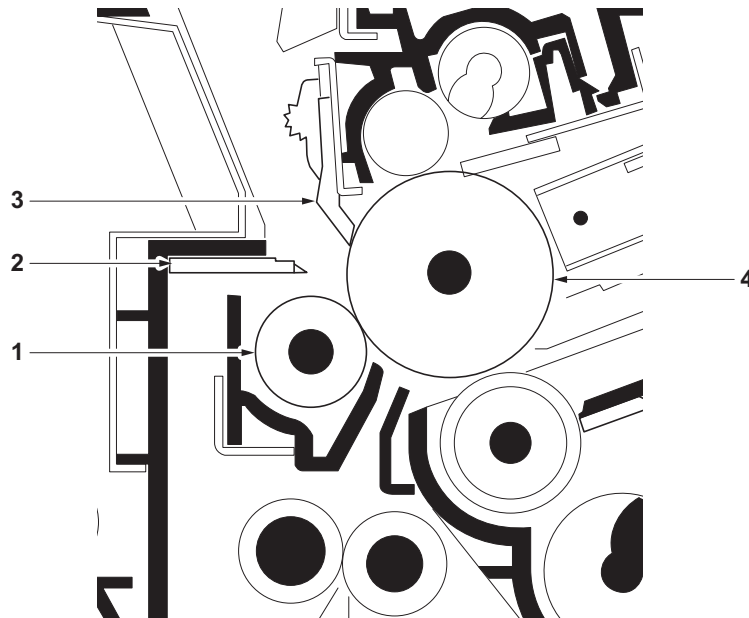


Figure 2-1-12 Transfer and separation sections

- (1) Transfer roller
- (2) Separation electrode
- (3) Drum separation claw
- (4) Drum

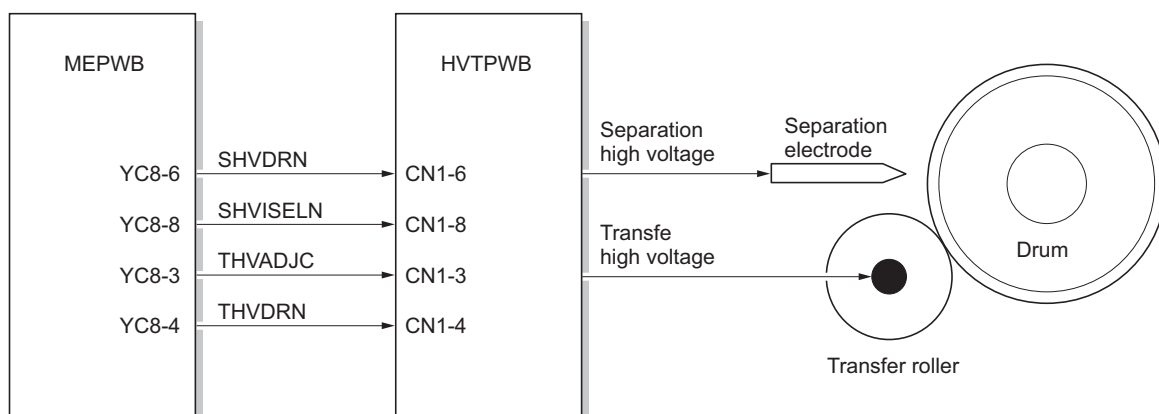


Figure 2-1-13 Transfer and separation sections block diagram

2-1-6 Fuser section

The fuser section consists of the parts shown in figure. When paper reaches the fuser section after the transfer process it passes between the press roller and heat roller, which is heated by fuser heaters M and S (FH-M/S). Pressure is applied by the fuser unit pressure springs so that the toner on the paper is melted, fused and fixed onto the paper.

The heat roller is heated by fuser heaters M and S (FH-M/S) inside it; its surface temperature is detected by the fuser thermistor (FTH) and is regulated by the fuser heaters turning on and off. If the fuser section becomes abnormally hot, fuser thermostat (FTS) operates shutting the power to the fuser heaters off.

When the fuser process is completed, the paper is separated from the heat roller by its separation claws and is conveyed to eject and switchback section.

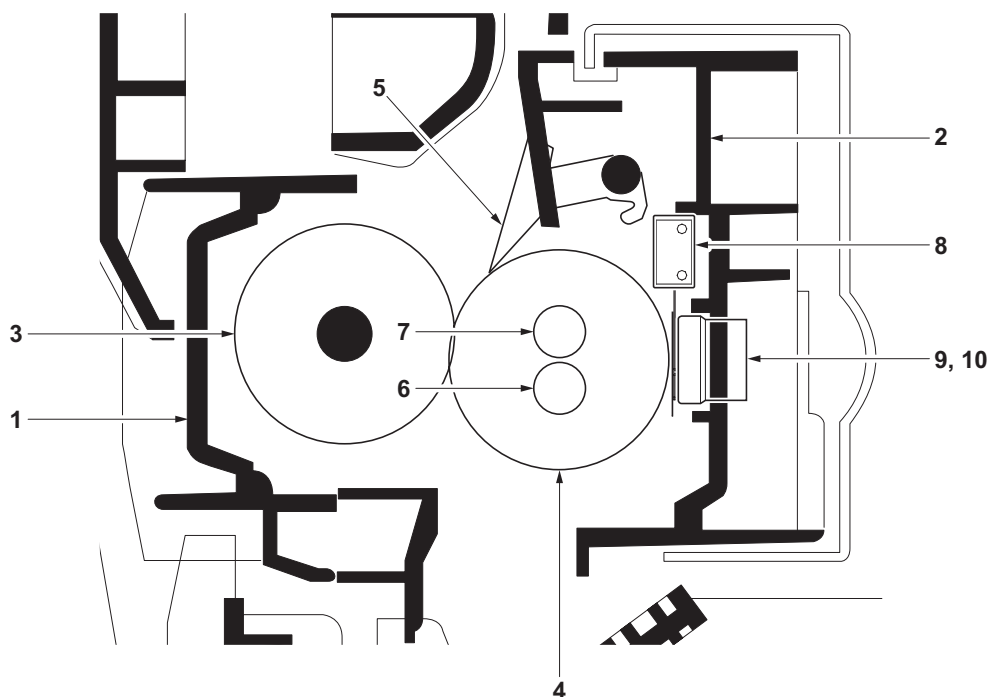


Figure 2-1-14 Fuser section

- | | |
|----------------------------------|--------------------------------|
| (1) Left fuser unit | (6) Fuser heater M (FH-M) |
| (2) Right fuser unit | (7) Fuser heater S (FH-S) |
| (3) Press roller | (8) Fuser thermistor (FTH) |
| (4) Heat roller | (9) Fuser thermostat 1 (FTS1) |
| (5) Heat roller separation claws | (10) Fuser thermostat 2 (FTS2) |

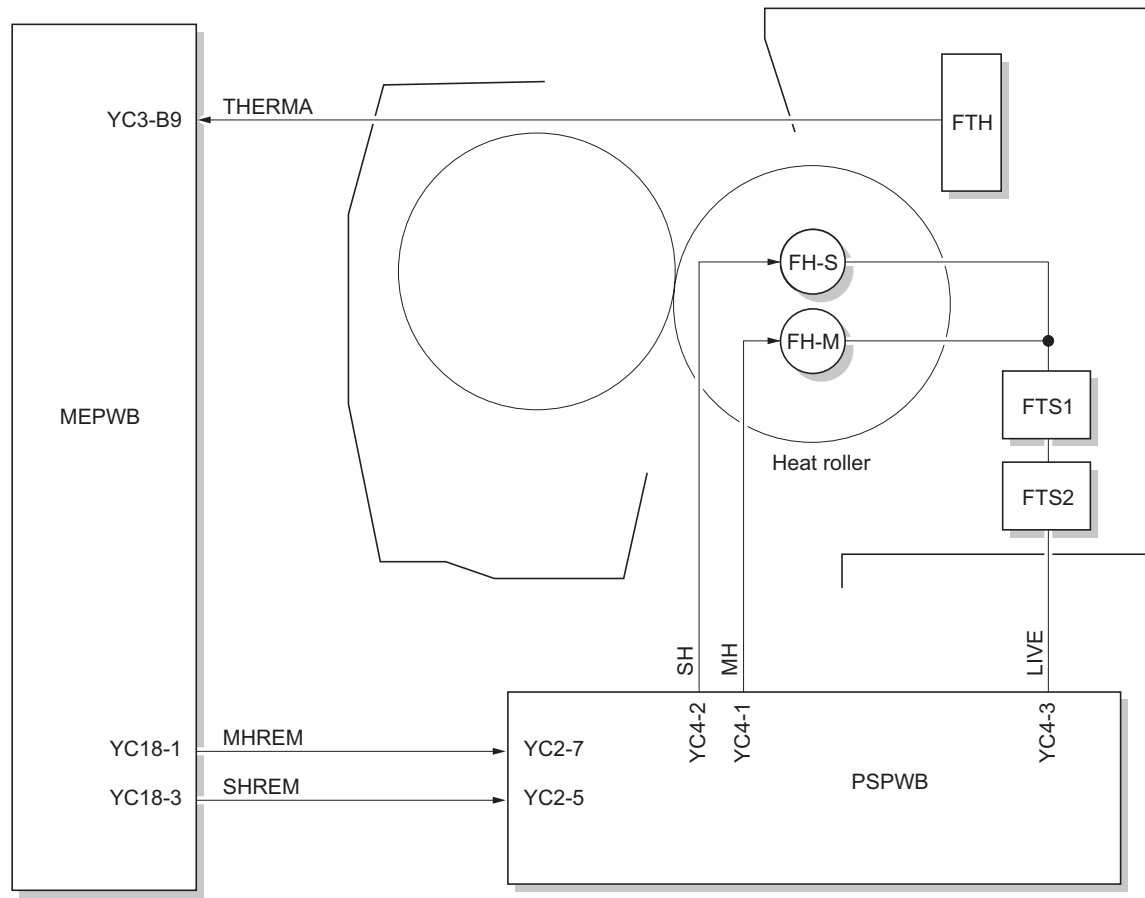


Figure 2-1-15 Fuser section block diagram

2-1-7 Eject and switchback sections

The eject and switchback sections eject paper on which fuser has ended with the eject roller that is rotated by forward rotation of the eject motor.

In duplex copying, paper is turned over by reverse rotation of the eject motor.

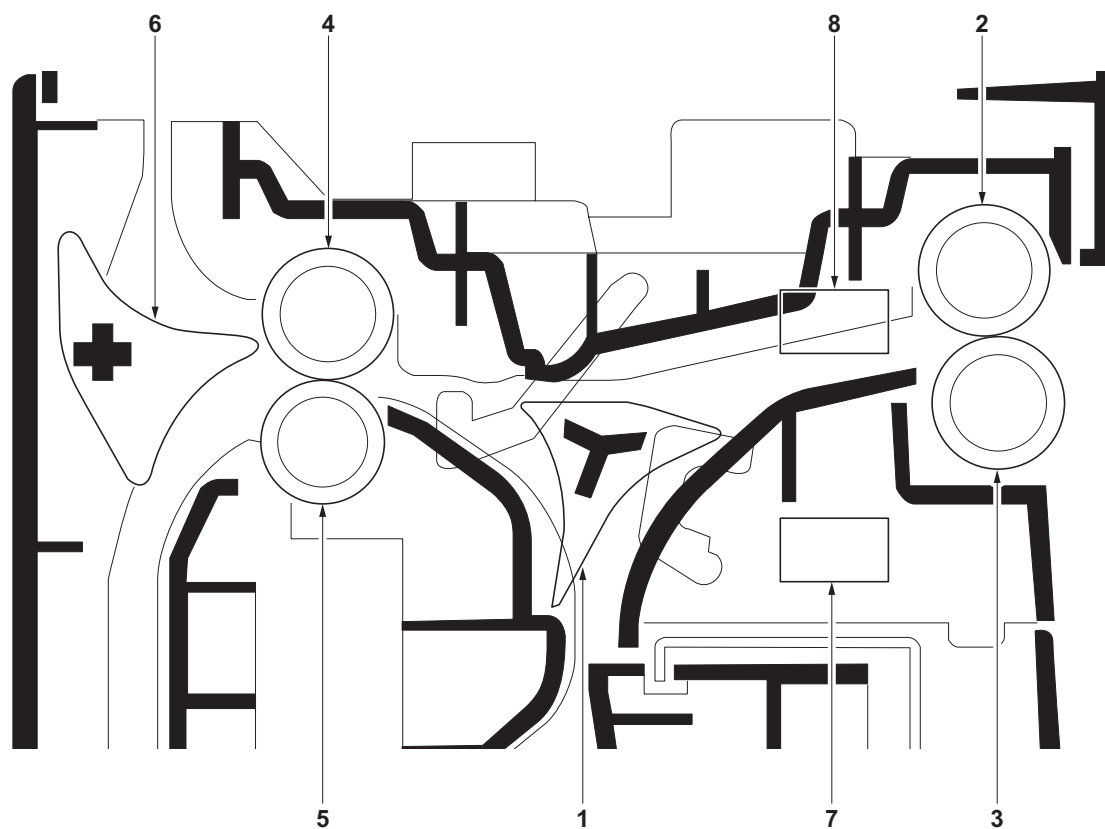


Figure 2-1-16 Eject and switchback sections

- (1) Feedshift guide
- (2) Eject roller
- (3) Eject pulley
- (4) Switchback roller
- (5) Switchback pulley
- (6) Feedshift guide
- (7) Eject switch (ESW)
- (8) Feedshift switch (FSSW)

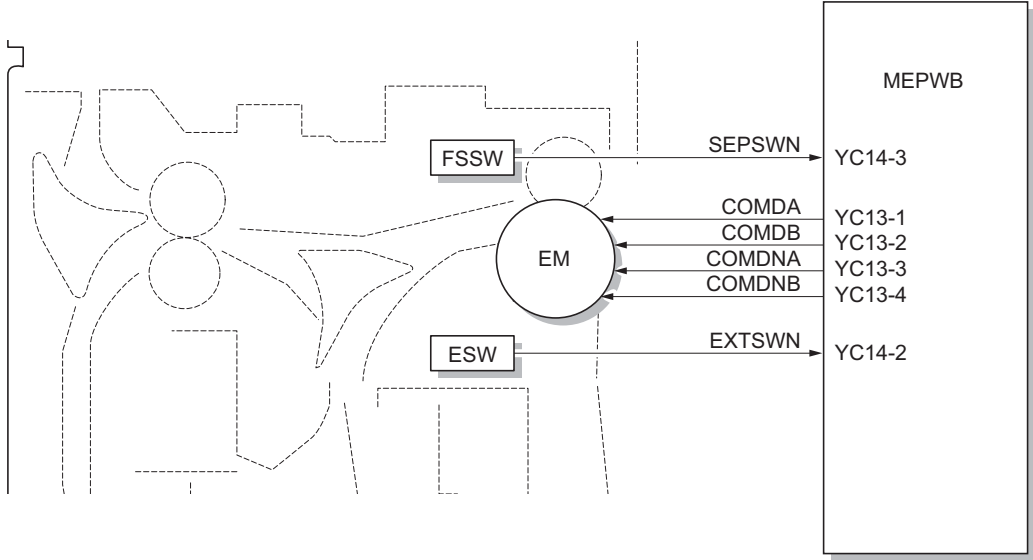


Figure 2-1-17 Eject and switchback sections block diagram

2-1-8 Duplex section

In duplex mode, after copying on to the reverse face of the paper, the paper is reversed in the switchback section and conveyed to the duplex unit. The paper is then conveyed to the paper feed section by the upper and lower duplex feed rollers.

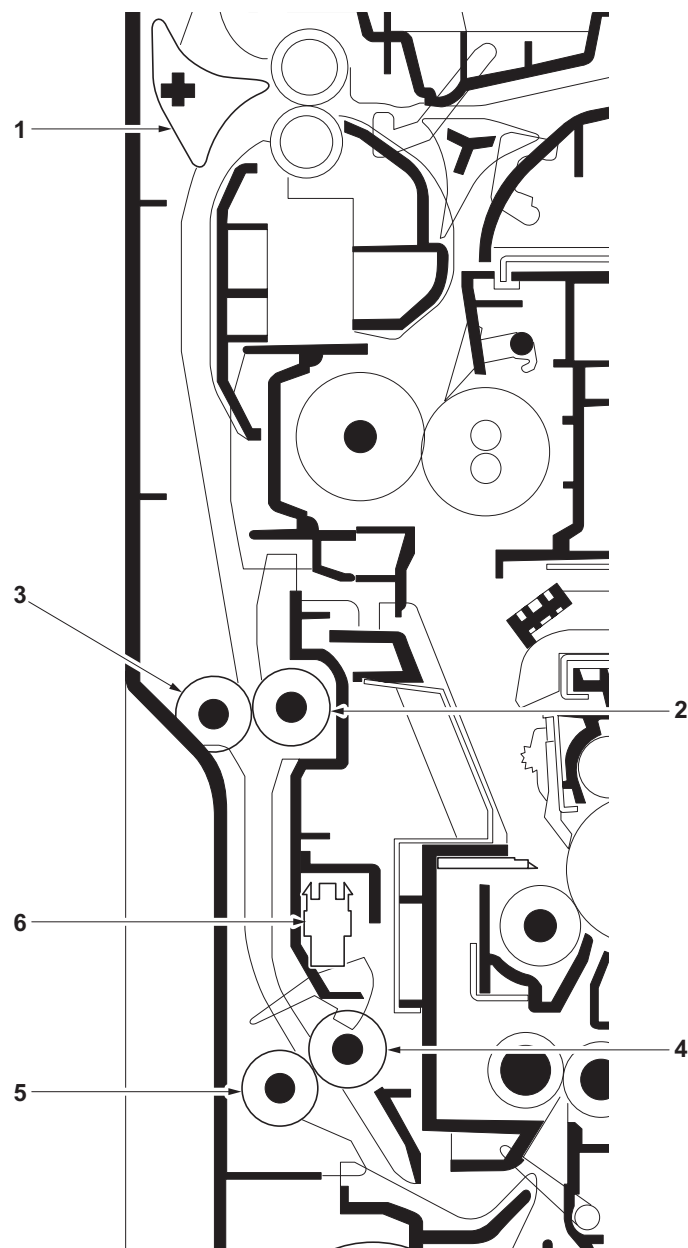


Figure 2-1-18 Duplex section

- (1) Feedshift guide
- (2) Duplex feed pulley
- (3) Upper duplex feed roller
- (4) Duplex feed pulley
- (5) Lower duplex feed roller
- (6) Duplex paper conveying switch (DUPPCSW)

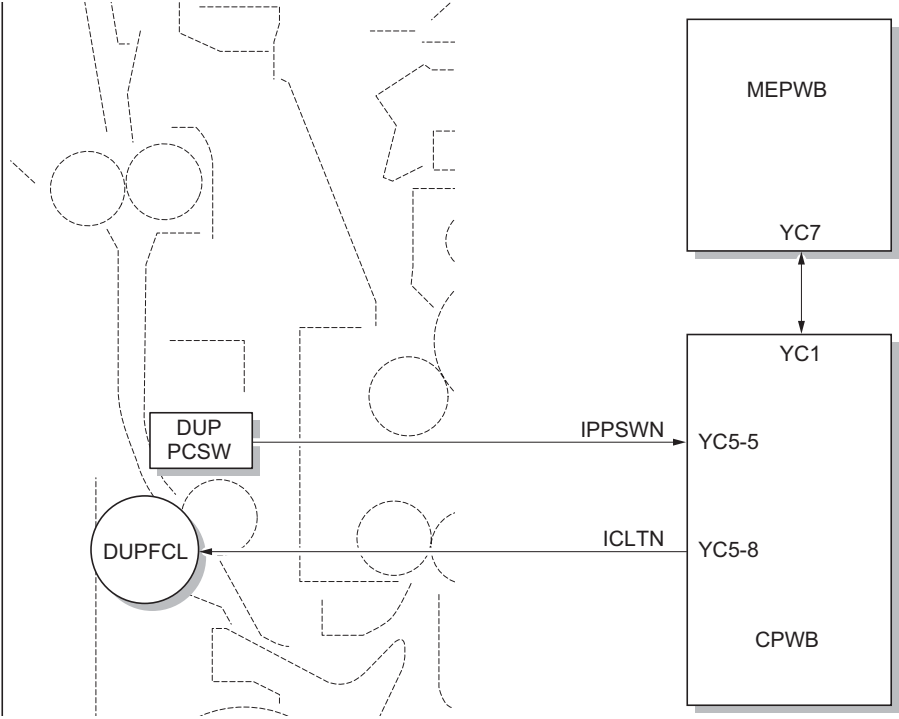


Figure 2-1-19 Duplex section block diagram

2-2-1 Electrical parts layout

(1) PWBs

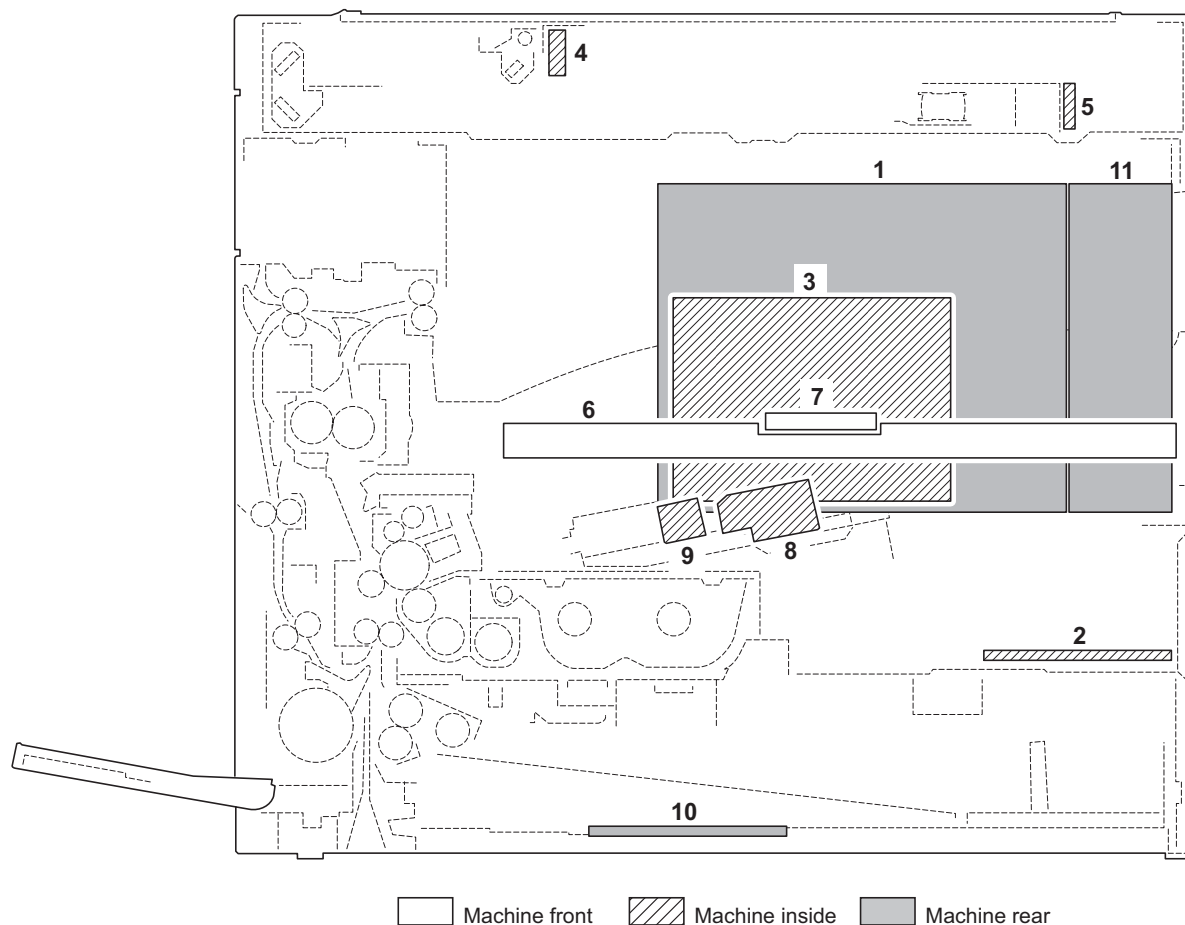


Figure 2-2-1 PWBs

- | | |
|------------------------------------|---|
| 1. Main/engine PWB (MEPWB) | Controls the other PWBs, electrical components and optional devices. |
| 2. Power source PWB (PSPWB) | Controls the operation panel and laser scanner unit. |
| 3. High voltage PWB (HVTPWB) | Generates +24 V DC; controls the fuser heaters. |
| 4. Inverter PWB (INPWB) | Main charging. Generates high voltages for transfer and high voltages for separation. |
| 5. CCD PWB (CCDPWB) | Controls the exposure lamp. |
| 6. Operation unit PWB (OPWB) | Reads the image of originals. |
| 7. LCD PWB (LCDPWB) | Consists of the operation keys and display LEDs. |
| 8. APC PWB (APCPWB) | Controls LCD indication. |
| 9. PD PWB (PDPWB) | Generates and controls the laser beam. |
| 10. Cassette PWB (CPWB) | Controls horizontal synchronizing timing of laser beam. |
| 11. Printer PWB (PRNPWB)* | Relays wirings from electrical components. |
| | Controls the printer functions. |

*: Option

List of correspondences of PWB names

No.	Name used in service manual	Name used in parts list
1	Main/engine PWB (MEPWB)	PARTS PWB MAIN ENGINE ASSY SP
2	Power source PWB (PSPWB)	PARTS LVU100(M) SP / PARTS LVU200(M) SP
3	High voltage PWB (HVPWB)	PARTS HVU SP
4	Inverter PWB (INPWB)	PARTS LAMP INVERTER SP
5	CCD PWB (CCDPWB)	-
6	Operation PWB (OPWB)	PARTS PWB PANEL ASSY SP
7	LCD PWB (LCDPWB)	PARTS LCD OPERATION SP
8	APC PWB (APCPWB)	-
9	PD PWB (PDPWB)	-
10	Cassette PWB (CPWB)	PARTS PWB INTERFACE ASSY SP
11	Printer PWB (PRNPWB)	PARTS GDI PWB ASSY SP

(2) Switches and sensors

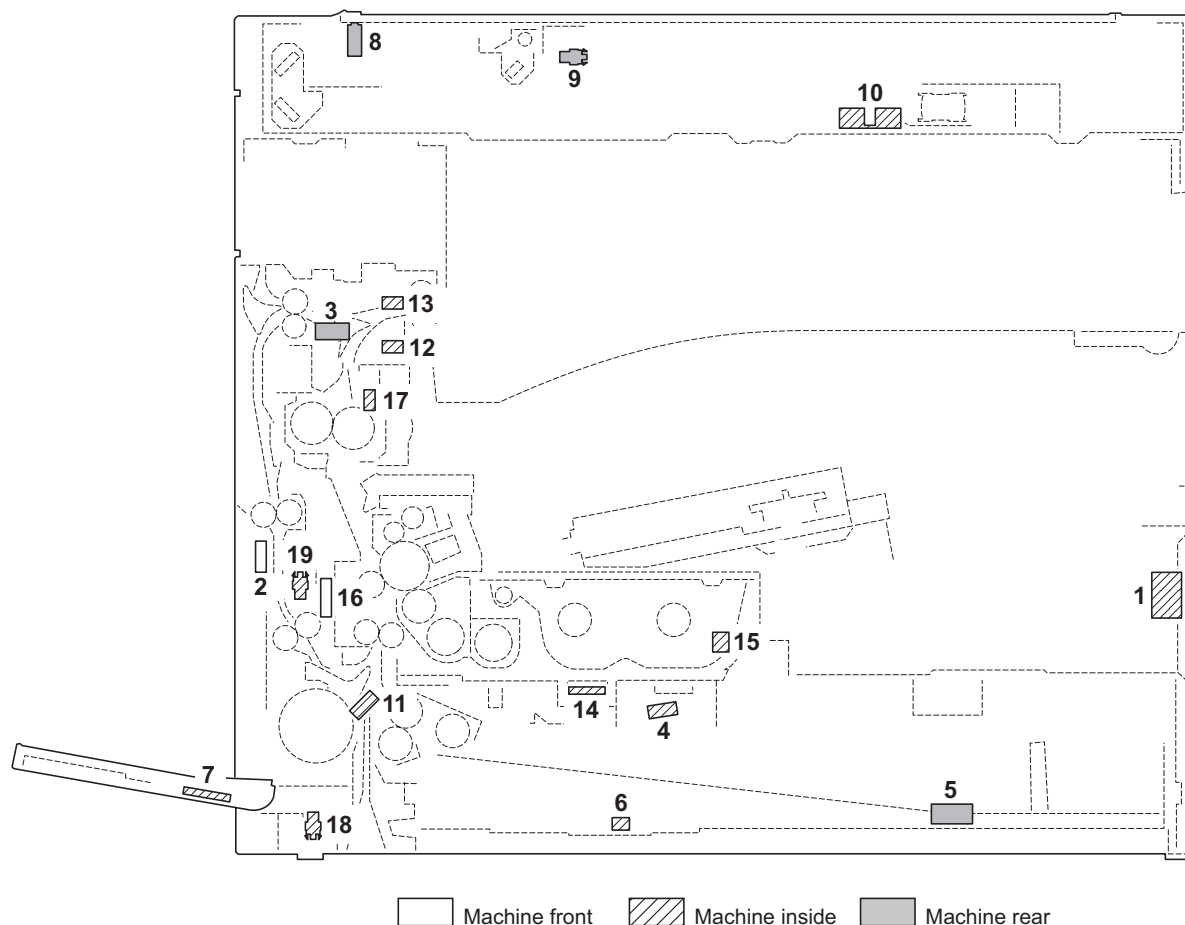
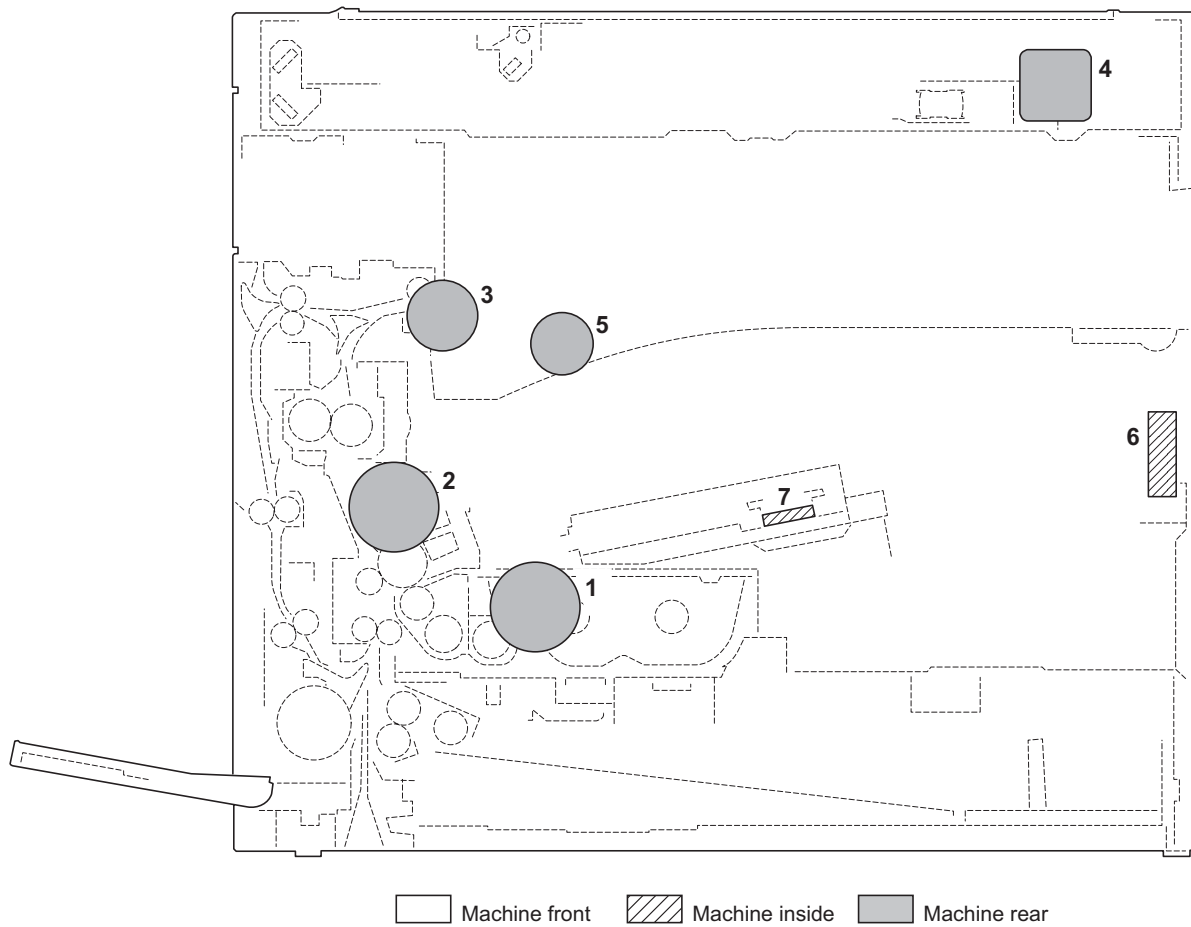


Figure 2-2-2 Switches and sensors

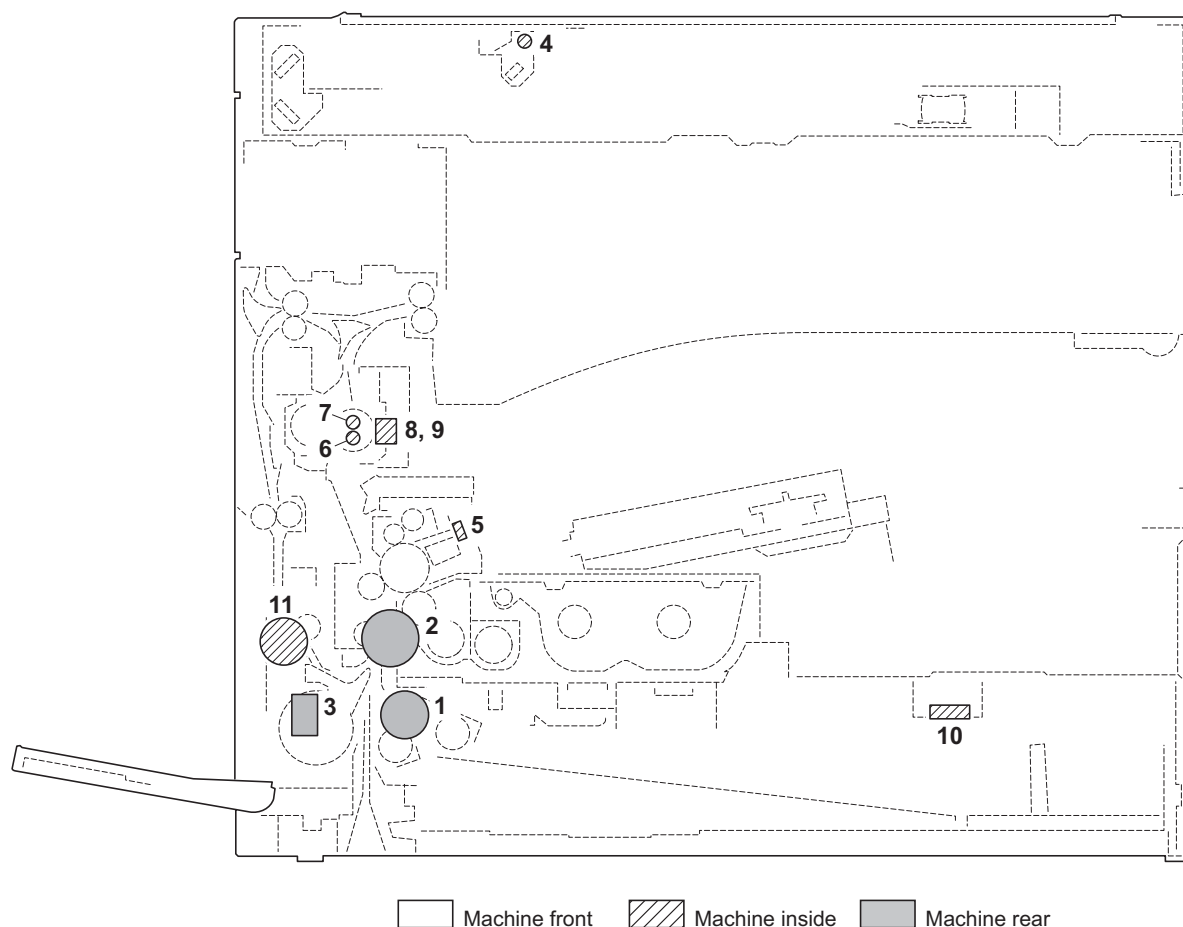
- | | |
|--|---|
| 1. Main power switch (MSW) | Turns the AC power on and off. |
| 2. Front cover safety switch (FCSSW) | Breaks the safety circuit when the front cover is opened. |
| 3. Left cover safety switch (LCSSW) | Breaks the safety circuit when the left cover is opened. |
| 4. Paper switch (PSW) | Detects the presence of paper in the cassette. |
| 5. Paper size length switch (PLSW) | Detects the length of paper in the cassette. |
| 6. Paper size width switch (PWSW) | Detects the width of paper in the cassette. |
| 7. MP paper size width switch (MPPWSW) | Detects the width of paper on the MP tray. |
| 8. Home position switch (HPSW) | Detects the optical system in the home position. |
| 9. Original detection switch (ODSW) | Operates the original size detection sensor. |
| 10. Original size detection sensor (OSDS) | Detects the size of the original. |
| 11. Registration switch (RSW) | Controls the secondary paper feed start timing. |
| 12. Eject switch (ESW) | Detects a paper misfeed in the fuser section. |
| 13. Feedshift switch (FSSW) | Detects a paper misfeed in the switchback section in a duplex copy. |
| 14. Toner container sensor (TCS) | Detects the quantity of toner in a toner container. |
| 15. Toner container detection switch (TCDSW) | Detects the presence of the toner container. |
| 16. Overflow sensor (OFS) | Detects when the waste toner box is full. |
| 17. Fuser thermistor (FTH) | Detects the heat roller temperature. |
| 18. MP paper switch (MPPSW) | Detects the presence of paper on the MP tray. |
| 19. Duplex paper conveying switch (DUPPCSW)* | Detects a paper jam in the duplex section. |

*: Option

(3) Motors**Figure 2-2-3 Motors**

- | | |
|-------------------------------------|-----------------------------|
| 1. Drive motor (DM) | Drives the machine. |
| 2. Drum motor (DRM) | Drives the drum. |
| 3. Eject motor (EM) | Drives the eject section. |
| 4. Scanner motor (SM)..... | Drives the optical system. |
| 5. Cooling fan motor 1 (CFM1) | Cools the machine interior. |
| 6. Cooling fan motor 2 (CFM2) | Cools the machine interior. |
| 7. Polygon motor (PM) | Drives the polygon mirror. |

(4) Others

**Figure 2-2-4 Other electrical components**

- | | |
|---------------------------------------|--|
| 1. Paper feed clutch (PFCL) | Primary paper feed from the cassette. |
| 2. Registration clutch (RCL) | Secondary paper feed. |
| 3. MP solenoid (MPSOL) | Primary paper feed from the MP tray. |
| 4. Exposure lamp (EL) | Exposes originals. |
| 5. Cleaning lamp (CL) | Removes residual charge from the drum surface. |
| 6. Fuser heater M (FH-M) | Heats the heat roller. |
| 7. Fuser heater S (FH-S) | Heats the heat roller. |
| 8. Fuser thermostat 1 (FTS1) | Prevents overheating in the fuser section. |
| 9. Fuser thermostat 2 (FTS2) | Prevents overheating in the fuser section. |
| 10. Cassette heater (CH) | Dehumidifies the cassette section. |
| 11. Duplex feed clutch (DUPFCL) | Controls the drive of the duplex feed roller. |

*: Option

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2-3-1 Power source PWB

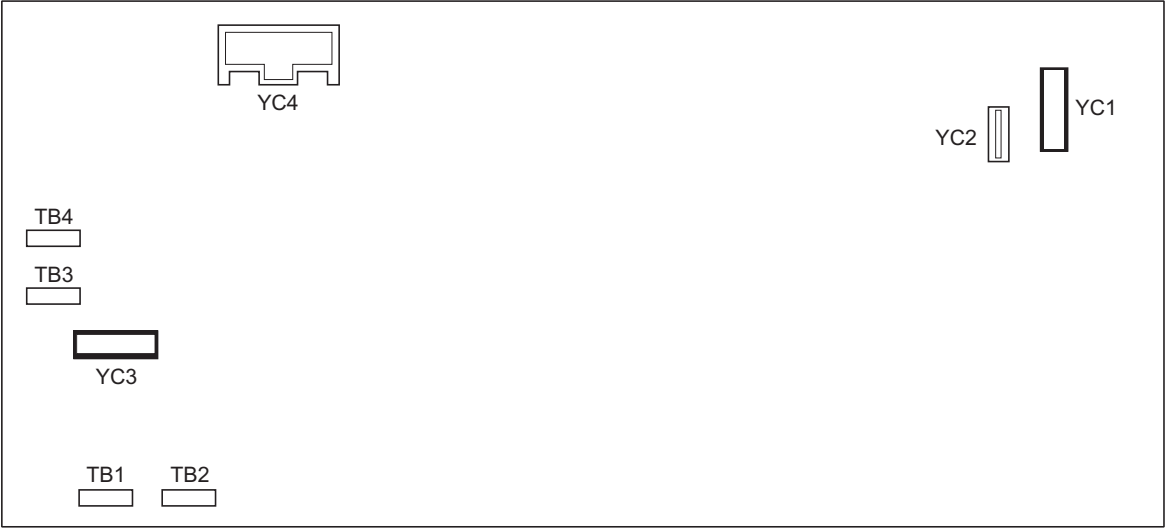


Figure 2-3-1 Power source PWB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
TB Connected to the AC inlet and main power switch	1	AC_LIVE	I	120 V AC 220-240 V AC	AC power input
	2	AC_COM	I	120 V AC 220-240 V AC	AC power input
	3	LIVE	O	120 V AC 220-240 V AC	AC power output to MSW
	4	LIVE	I	120 V AC 220-240 V AC	AC power input from MSW
YC1 Connected to the main/engine PWB	1	GND	-	-	Ground
	2	+24V	O	24 V DC	24 V DC power output to MEPWB
	3	+24V	O	24 V DC	24 V DC power output to MEPWB
	4	+24V	O	24 V DC	24 V DC power output to MEPWB
	5	GND	-	-	Ground
	6	GND	-	-	Ground
YC2 Connected to the main/engine PWB	1	+24V2	O	24 V DC	24 V DC power output to MEPWB
	2	ZCROSS	O	0/3.3 V DC (pulse)	Zero-cross signal
	3	RELAYREM	I	0/3.3 V DC	Relay signal
	4	GND	-	-	Ground
	5	SHREM	I	0/3.3 V DC	FH-S: On/Off
	6	SLEEP	I	0/3.3 V DC	Sleep signal: On/Off
	7	MHREM	I	0/3.3 V DC	FH-M: On/Off
YC3 Connected to the cassette heater and paper feeder	1	LIVE	O	120 V AC 220-240 V AC	AC power output to CH
	2	LIVE	O	120 V AC 220-240 V AC	AC power output to CH
	3	NC	-	-	Not used
	4	NEUTRAL	O	120 V AC 220-240 V AC	AC power output to CH (paper feeder)
	5	NEUTRAL	O	120 V AC 220-240 V AC	AC power output to CH (paper feeder)
YC4 Connected to the fuser heater M/S	1	MH	O	120 V AC 220-240 V AC	FH-M: On/Off
	2	SH	O	120 V AC 220-240 V AC	FH-S: On/Off
	3	LIVE	O	120 V AC 220-240 V AC	AC power output to FM-M/S

2-3-2 Main/engine PWB

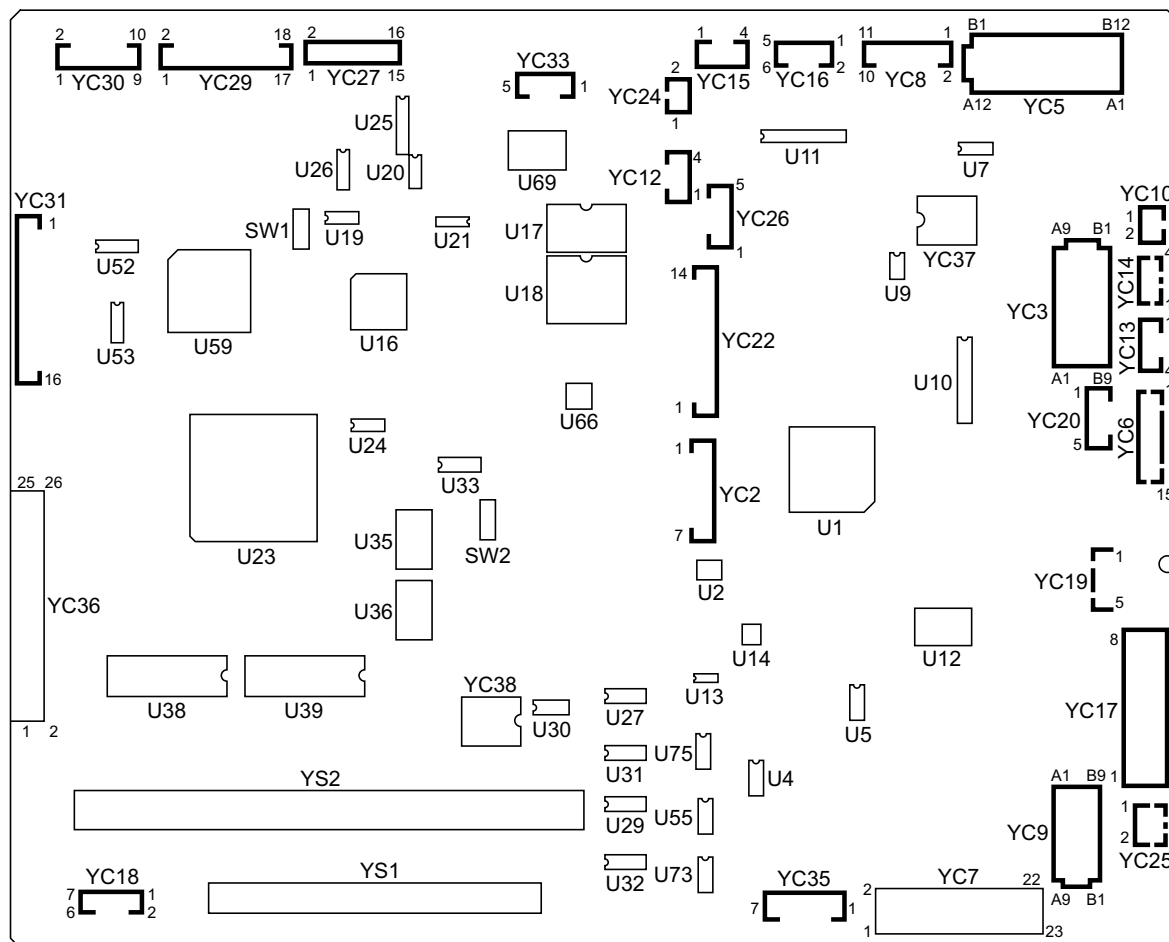


Figure 2-3-2 Main/engine PWB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
YC3 Connected to the polygon motor, cooling fan motor 1, overflow sensor, cleaning lamp and fuser thermistor	A1	PLGCLKN	O	0/3.3 V DC (pulse)	PM clock signal
	A2	PLGRDYN	I	0/3.3 V DC	PM ready signal
	A3	PLGDRN	O	0/3.3 V DC	PM: On/Off
	A4	PLGGND	-	-	Ground
	A5	PLG+24V1	O	24 V DC	24 V DC power output to PM
	A6	FAN1DRN	O	0/24 V DC	CFM1: On/Off
	A7	FAN1+24V1	O	24 V DC	24 V DC power output to CFM1
	A8	NC	-	-	Not used
	A9	NC	-	-	Not used
	B1	TONEGND	-	-	Ground
	B2	TONEFULL	I	0/5 V DC	OFS: On/Off
	B3	TONE+5V2	O	5 V DC	5 V DC power output to OFS
	B4	ERASE+24V1	O	24 V DC	24 V DC power output to CL
	B5	NC	-	-	Not used
	B6	ERASE2N	O	0/24 V DC	CL: On/Off
	B7	ERASE1N	O	0/24 V DC	CL: On/Off
	B8	THERMAGND	I	-	Ground
	B9	THERMA	-	Analog	FTH detection signal
YC5 Connected to the document processor, original size detection sensor, home position sensor and original detection switch	A1	ORGTIMN	I	0/5 V DC	Original scanning interval signal
	A2	DOPRDY	I	0/5 V DC	Document processor ready signal
	A3	DOPSEL	O	0/5 V DC	Document processor select signal
	A4	SGND	-	-	Ground
	A5	DOPCLK	O	0/5 V DC (pulse)	Document processor clock signal
	A6	DOPSDI	I	0/5 V DC (pulse)	Document processor serial communication data signal
	A7	DOPSDO	O	0/5 V DC (pulse)	Document processor serial communication data signal
	A8	+5V4	O	5 V DC	5 V DC power output to document processor
	A9	PGND	-	-	Ground
	A10	PGND	-	-	Ground
	A11	+24V1	O	24 V DC	24 V DC power output to document processor
	A12	NC	-	-	Not used
	B1	+5V4	O	5 V DC	5 V DC power output to OSDS
	B2	ORGLSWN	I	0/3.3 V DC	OSDS: On/Off
	B3	SGND	-	-	Ground
	B4	+5V4	O	5 V DC	5 V DC power output to HPSW
	B5	HPSWN	I	0/3.3 V DC	HPSW: On/Off
	B6	SGND	-	-	Ground
	B7	+5V4	O	5 V DC	5 V DC power output to ODSW
	B8	OPSWN	I	0/3.3 V DC	ODSW: On/Off
	B9	SGND	-	-	Ground
	B10	NC	-	-	Not used
	B11	NC	-	-	Not used
	B12	NC	-	-	Not used

Connector	Pin No.	Signal	I/O	Voltage	Description
YC6 Connected to the drive motor and drum motor	1	+24V2	O	-	24 V DC power output to DM
	2	PGND	-	-	Ground
	3	MDMREM	O	0/24 V DC	DM: On/Off
	4	MDMCLK	O	0/3.3 V DC (pulse)	DM clock signal
	5	3.3V	O	3.3 V DC	3.3 V DC power output to DM
	6	MDMRDY	I	0/3.3 V DC	DM ready signal
	7	3.3V	O	3.3 V DC	3.3 V DC power output to DM
	8	NC	-	-	Not used
	9	+24V2	O	24 V DC	24 V DC power output to DRM
	10	PGND	-	-	Ground
	11	DDMREM	O	0/24 V DC	DRM: On/Off
	12	DDMCLK	O	0/3.3 V DC (pulse)	DRM clock signal
	13	PGND	-	-	Ground
	14	DDMRDY	I	0/3.3 V DC	DRM ready signal
	15	PGND	-	-	Ground
	16	NC	-	-	Not used
YC7 Connected to the cas- sette PWB	1	TEMP	I	Analog	HUMS detection signal
	2	HMCLK1	O	0/3.3 V DC (pulse)	HUMS clock signal
	3	HMCLK2	O	0/3.3 V DC (pulse)	HUMS clock signal
	4	HUMID	I	Analog	HUMS detection signal
	5	C1PWSWN	I	0/3.3 V DC	PWSW: On/Off
	6	C1PDSWN	I	0/3.3 V DC	PSW: On/Off
	7	+5V2	O	5 V DC	5 V DC power output to CPWB
	8	TONEPY	I	Analog	TCS detection signal
	9	SGND	-	-	Ground
	10	BPWSW	I	0/3.3 V DC	MPPWSW: On/Off
	11	REGSWN	I	0/3.3 V DC	RSW: On/Off
	12	ICLTN	O	0/24 V DC	DUPFCL: On/Off
	13	IPPSWN	I	0/3.3 V DC	DUPPCSW: On/Off
	14	BPPESW	I	0/3.3 V DC	MPPSW: On/Off
	15	SGND	-	-	Ground
	16	BSOLN	O	0/24 V DC	MPSOL: On/Off
	17	FCLTN	O	0/24 V DC	PFCL: On/Off
	18	REGCLN	O	0/24 V DC	RCL: On/Off
	19	+24V1	O	24 V DC	24 V DC power output to CPWB
	20	+24V1	O	24 V DC	24 V DC power output to CPWB
	23	+3.3V	O	3.3 V DC	3.3 V DC power output to CPWB

Connector	Pin No.	Signal	I/O	Voltage	Description
YC8 Connected to the high voltage PWB	1	+24V2	O	24 V DC	24 V DC power output to HVTPWB
	2	+24V2	O	24 V DC	24 V DC power output to HVTPWB
	3	THVADJC	O	Analog	Transfer high voltage control signal
	4	THVDRN	O	0/3.3 V DC	Transfer high voltage: On/Off
	5	MHVADJC	O	Analog	Main charger high voltage control signal
	6	SHVDRN	O	0/3.3 V DC	Separation high voltage: On/Off
	7	MHVDRN	O	0/3.3 V DC	Main charger high voltage: On/Off
	8	SHVISELN	O	0/3.3 V DC	Separation high voltage switching signal
	9	DHVCLKC	O	0/3.3 V DC (pulse)	Developing bias clock signal
	10	PGND	-	-	Ground
	11	PGND	-	-	Ground
YC9 Connected to the paper feeder, paper size length switch and toner container detection switch	A1	LOPSRDY	I	0/5 V DC	Paper feeder ready signal
	A2	LOPSEL2	O	0/5 V DC	Paper feeder select signal 2
	A3	LOPSEL1	O	0/5 V DC	Paper feeder select signal 1
	A4	LOPSEL0	O	0/5 V DC	Paper feeder select signal 0
	A5	LOPSCLK	O	0/5 V DC (pulse)	Paper feeder clock signal
	A6	LOPSDI	I	0/5 V DC (pulse)	Paper feeder serial communication data signal
	A7	LOPSDO	O	0/5 V DC (pulse)	Paper feeder serial communication data signal
	A8	SGND	-	-	Ground
	A9	+5V2PF	O	5 V DC	5 V DC power output to paper feeder
	B1	SGND	-	-	Ground
	B2	+5V2PF	O	5 V DC	5 V DC power output to paper feeder
	B3	C1PLSW3N	I	0/3.3 V DC	PLSW: On/Off
	B4	C1PLSW2N	I	0/3.3 V DC	PLSW: On/Off
	B5	SGND	-	-	Ground
	B6	C1PLSW1N	I	0/3.3 V DC	PLSW: On/Off
	B7	TCONDET	I	0/3.3 V DC	TCDSW: On/Off
	B8	SGND	-	-	Ground
	B9	NC	-	-	Not used
YC10 Connected to the cooling fan motor 2	1	FAN2+24V1	O	24 V DC	24 V DC power output to CFM2
	2	FAN2DRN	O	0/24 V DC	CFM2: On/Off
YC12 Connected to the key counter	1	+24V1	O	24 V DC	24 V DC power output to key counter
	2	KEYCN	O	0/3.3 V DC	Key counter signal
	3	SGND	-	-	Ground
	4	KEYENBN	I	0/3.3 V DC	Key counter detection signal
YC13 Connected to the eject motor	1	COMDA	O	0/24 V DC (pulse)	EM drive control signal
	2	COMDB	O	0/24 V DC (pulse)	EM drive control signal
	3	COMDNA	O	0/24 V DC (pulse)	EM drive control signal
	4	COMDNB	O	0/24 V DC (pulse)	EM drive control signal

Connector	Pin No.	Signal	I/O	Voltage	Description
YC14 Connected to the eject switch and feedshift switch	1	PGND	-	-	Ground
	2	EXTSWN	O	0/3.3 V DC	ESW: On/Off
	3	SEPSWN	O	0/3.3 V DC	FSSW: On/Off
	4	+5V4	O	5 V DC	5 V DC power output to ESW/FSSW
YC15 Connected to the scanner motor	1	ISMDA	O	0/24 V DC (pulse)	SM drive control signal
	2	ISMDB	O	0/24 V DC (pulse)	SM drive control signal
	3	ISMDNA	O	0/24 V DC (pulse)	SM drive control signal
	4	ISMDNB	O	0/24 V DC (pulse)	SM drive control signal
YC16 Connected to the inverter PWB	1	+24V1	O	24 V DC	24 V DC power output to INPWB
	2	+24V1	O	24 V DC	24 V DC power output to INPWB
	3	NC	-	-	Not used
	4	LAMPN	O	0/24 V DC	EL: On/Off
	5	PGND	-	-	Ground
	6	PGND	-	-	Ground
YC17 Connected to the power source PWB, left cover safety switch and front cover safety switch	1	+24V	I	24 V DC	24 V DC power input from PSPWB
	2	+24V	I	24 V DC	24 V DC power input from PSPWB
	3	+24V1	O	24 V DC	24 V DC power output to LCSSW
	4	PGND	-	-	Ground
	5	+24VIL1	I	24 V DC	24 V DC power input from LCSSW
	6	+24VIL1	O	24 V DC	24 V DC power output to FCSSW
	7	PGND	-	-	Ground
	8	+24VIL2	I	24 V DC	24 V DC power input from FCSSW
YC18 Connected to the power source PWB	1	MHREM	O	0/3.3 V DC	FH-M: On/Off
	2	SLEEP	O	0/3.3 V DC	Sleep signal: On/Off
	3	SHREM	O	0/3.3 V DC	FH-S: On/Off
	4	SGND	-	-	Ground
	5	RELAYREM	O	0/3.3 V DC	Relay signal
	6	ZCROSS	I	0/3.3 V DC (pulse)	Zero-cross signal
	7	+24V2	I	24 V DC	24 V DC power input from PSPWB
YC25 Connected to the paper feeder	1	PGND	-	-	Ground
	2	+24V1	O	24 V DC	24 V DC power output to paper feeder

Connector	Pin No.	Signal	I/O	Voltage	Description
YC27 Connected to the CCD PWB	1	5V	O	5 V DC	5 V DC power output to CCDPWB
	2	NC	-	-	Not used
	3	TG	O	0/3.3 V DC	CCD control signal
	4	GND	-	-	Ground
	5	RS	I	0/3.3 V DC	CCD control signal
	6	GND	-	-	Ground
	7	CP	O	0/3.3 V DC	CCD control signal
	8	GND	-	-	Ground
	9	PHY2	-	0/3.3 V DC (pulse)	CCD clock signal
	10	GND	-	-	Ground
	11	GND	-	-	Ground
	12	Vout1		Analog	CCD output signal
	13	Vout2		Analog	CCD output signal
	14	GND	-	-	Ground
	15	NC	-	-	Not used
	16	CCDPWR	O	12 V DC	12 V DC power output to CCDPWB
YC29 Connected to the operation PWB	1	KEY4	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 4
	2	KEY3	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 3
	3	KEY2	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 2
	4	KEY1	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 1
	5	KEY0	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 0
	6	LED12	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 12
	7	LED11	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 11
	8	LED10	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 10
	9	LED9	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 9
	10	LED8	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 8
	11	LED7	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 7
	12	LED6	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 6
	13	LED5	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 5
	14	LED4	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 4
	15	LED3	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 3
	16	LED2	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 2
	17	LED1	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 1
	18	LED0	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 0
YC30 Connected to the operation PWB	1	+5V	O	5 V DC	5 V DC power output to OPWB
	2	BUZERDRN	O	0/3.3 V DC	OPWB buzzer signal
	3	SCAN7	O	0/3.3 V DC (pulse)	Scan signal 7
	4	SCAN6	O	0/3.3 V DC (pulse)	Scan signal 6
	5	SCAN5	O	0/3.3 V DC (pulse)	Scan signal 5
	6	SCAN4	O	0/3.3 V DC (pulse)	Scan signal 4
	7	SCAN3	O	0/3.3 V DC (pulse)	Scan signal 3
	8	SCAN2	O	0/3.3 V DC (pulse)	Scan signal 2
	9	SCAN1	O	0/3.3 V DC (pulse)	Scan signal 1
	10	SCAN0	O	0/3.3 V DC (pulse)	Scan signal 0

Connector	Pin No.	Signal	I/O	Voltage	Description
YC31 Connected to the LCD PWB	1	SGND	-	-	Ground
	2	+3.3V	O	3.3 V DC	3.3 V DC power output to LCDPWB
	3	+3.3V	O	3.3 V DC	3.3 V DC power output to LCDPWB
	4	LCDRS	O	0/3.3 V DC (pulse)	LCD indicator control signal
	5	LCDR_W	O	0/3.3 V DC (pulse)	LCD indicator control signal
	6	LCDEN	O	0/3.3 V DC (pulse)	LCD indicator control signal
	7	LCDD0	O	0/3.3 V DC (pulse)	LCD indicator data signal 0
	8	LCDD1	O	0/3.3 V DC (pulse)	LCD indicator data signal 1
	9	LCDD2	O	0/3.3 V DC (pulse)	LCD indicator data signal 2
	10	LCDD3	O	0/3.3 V DC (pulse)	LCD indicator data signal 3
	11	LCDD4	O	0/3.3 V DC (pulse)	LCD indicator data signal 4
	12	LCDD5	O	0/3.3 V DC (pulse)	LCD indicator data signal 5
	13	LCDD6	O	0/3.3 V DC (pulse)	LCD indicator data signal 6
	14	LCDD7	O	0/3.3 V DC (pulse)	LCD indicator data signal 7
	15	SGND	-	-	Ground
	16	SGND	-	-	Ground
YC35 Connected to the APC PWB	1	PDN	I	0/3.3 V DC	Laser sync signal
	2	SGND	-	-	Ground
	3	OUTREN	O	0/3.3 V DC	Laser diode output signal
	4	SAMPLEN	O	0/3.3 V DC	Sample hold signal
	5	VDON	O	-	Image data signal
	6	VDOP	O	-	Image data signal
	7	5V1	O	5 V DC	5 V DC power output to APCPWB
YC36 Connected to the printer PWB	A1	PDGDIN	O	0/3.3 V DC	PRNPWB control signal
	A2	C2PRRSTN	O	0/3.3 V DC	PRNPWB reset signal
	A3	SAMPLEGDIN	I	0/3.3 V DC	PRNPWB control signal
	A4	PDMASKGDIN	O	0/3.3 V DC	PRNPWB control signal
	A5	C2PSDIR	O	0/3.3 V DC	PRNPWB control signal
	A6	C2PEGSI	I	0/3.3 V DC (pulse)	PRNPWB serial communication data signal
	A7	C2PEGSO	O	0/3.3 V DC (pulse)	PRNPWB serial communication data signal
	A8	C2PSBSY	O	0/3.3 V DC	PRNPWB control signal
	A9	G2PSCKN	I	0/3.3 V DC (pulse)	PRNPWB clock signal
	A10	C2PEGIRN	O	0/3.3 V DC	PRNPWB control signal
	A11	GDILVDS_ENB N	O	0/3.3 V DC	PRNPWB control signal
	A12	SGND	-	-	Ground
	A13	LDOUTP_GDI	I	0/3.3 V DC	PRNPWB control signal
	B1	+5V	O	5 V DC	5 V DC power output to PRNPWB
	B2	SGND	-	-	Ground
	B3	+5V	O	5 V DC	5 V DC power output to PRNPWB
	B4	SGND	-	-	Ground
	B5	+5V	O	5 V DC	5 V DC power output to PRNPWB
	B6	SGND	-	-	Ground
	B7	+5V	O	5 V DC	5 V DC power output to PRNPWB

Connector	Pin No.	Signal	I/O	Voltage	Description
YC36 Connected to the printer PWB	B8	SGND	-	-	Ground
	B9	SGND	-	-	Ground
	B10	SETN	I	0/3.3 V DC	PRNPWB control signal
	B11	GDIENB	O	0/3.3 V DC	PRNPWB control signal
	B12	+5V3	O	5 V DC	5 V DC power output to PRNPWB
	B13	LDOUTN_GDI	I	0/3.3 V DC	PRNPWB control signal

2-3-3 **Cassette PWB**

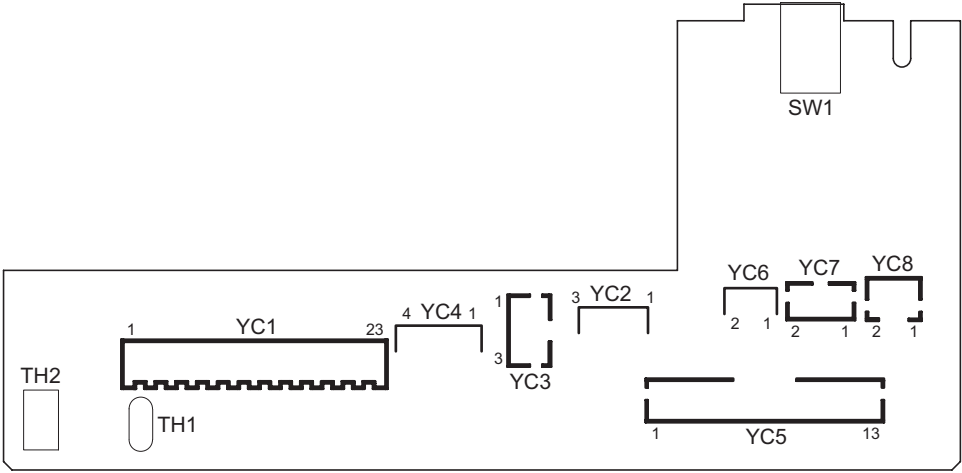


Figure 2-3-3 Cassette PWB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
YC1 Connected to the main/ engine PWB	1	TEMP	O	Analog	HUMS detection signal
	2	HMCLK1	I	0/3.3 V DC (pulse)	Not used
	3	HMCLK2	I	0/3.3 V DC (pulse)	HUMS clock signal
	4	HUMID	O	Analog	HUMS detection signal
	5	C1PWSWN	O	0/3.3 V DC	PWSW: On/Off
	6	C1PDSWN	O	0/3.3 V DC	PSW: On/Off
	7	+5V2	I	5 V DC	5 V DC power input from MEPWB
	8	TONEPY	O	Analog	TCS detection signal
	9	SGND	-	-	Ground
	10	BPWSW	O	0/3.3 V DC	MPPWSW: On/Off
	11	REGSWN	O	0/3.3 V DC	RSW: On/Off
	12	ICLTN	I	Analog	DUPFCL: On/Off
	13	IPPSWN	O	0/3.3 V DC	DUPPCSW: On/Off
	14	BPPEWSW	O	0/3.3 V DC	MPPSW: On/Off
	15	SGND	-	-	Ground
	16	BSOLN	I	0/24 V DC	MPSOL: On/Off
	17	FCLTN	I	0/24 V DC	PFCL: On/Off
	18	REGCLN	I	0/24 V DC	RCL: On/Off
	19	+24V1	I	24 V DC	24 V DC power input from MEPWB
	20	+24V1	I	24 V DC	24 V DC power input from MEPWB
	23	+3.3V	I	3.3 V DC	3.3 V DC power input from MEPWB
YC2 Connected to the paper switch	1	SGND	-	-	Ground
	2	C1PDSWN	I	0/3.3 V DC	PSW: On/Off
	3	+5V2	O	5 V DC	5 V DC power output to PSW
YC3 Connected to the toner container sensor	1	+5V2	O	5 V DC	5 V DC power output to TCS
	2	TONEPY	I	Analog	TCS detection signal
	3	SGND	-	-	Ground
YC5 Connected to the MP paper switch, duplex paper con- veying switch, duplex feed clutch, regis- tration switch and MP paper size width switch	1	+5V2	O	5 V DC	5 V DC power output to MPPSW
	2	BPPEWSW	I	0/3.3 V DC	MPPSW: On/Off
	3	SGND	-	-	Ground
	4	+5V2	O	5 V DC	5 V DC power output to MPPCSW
	5	IPPSWN	I	0/3.3 V DC	DUPPCSW: On/Off
	6	SGND	-	-	Ground
	7	+24V1	O	24 V DC	24 V DC power output to DUPFCL
	8	ICLTN	O	0/24 V DC	DUPFCL: On/Off
	9	+5V2	O	5 V DC	5 V DC power output to RSW
	10	REGSW	I	0/3.3 V DC	RSW: On/Off
	11	SGND	-	-	Ground
	12	BPWSW	I	0/3.3 V DC	MPPWSW: On/Off
	13	+3.3V	O	3.3 V DC	3.3 V DC power output to MPPWSW

Connector	Pin No.	Signal	I/O	Voltage	Description
YC6 Connected to the registration clutch	1	+24V1	O	24 V DC	24 V DC power output to RCL
	2	REGCLN	O	0/24 V DC	RCL: On/Off
YC7 Connected to the paper feed clutch	1	+24V1	O	24 V DC	24 V DC power output to PFCL
	2	FCLTN	O	0/24 V DC	PFCL: On/Off
YC8 Connected to the MP solenoid	1	BSOLN	O	0/24 V DC	MPSOL: On/Off
	2	+24V1	O	24 V DC	24 V DC power output to MPSOL

2-3-4 Operation PWB

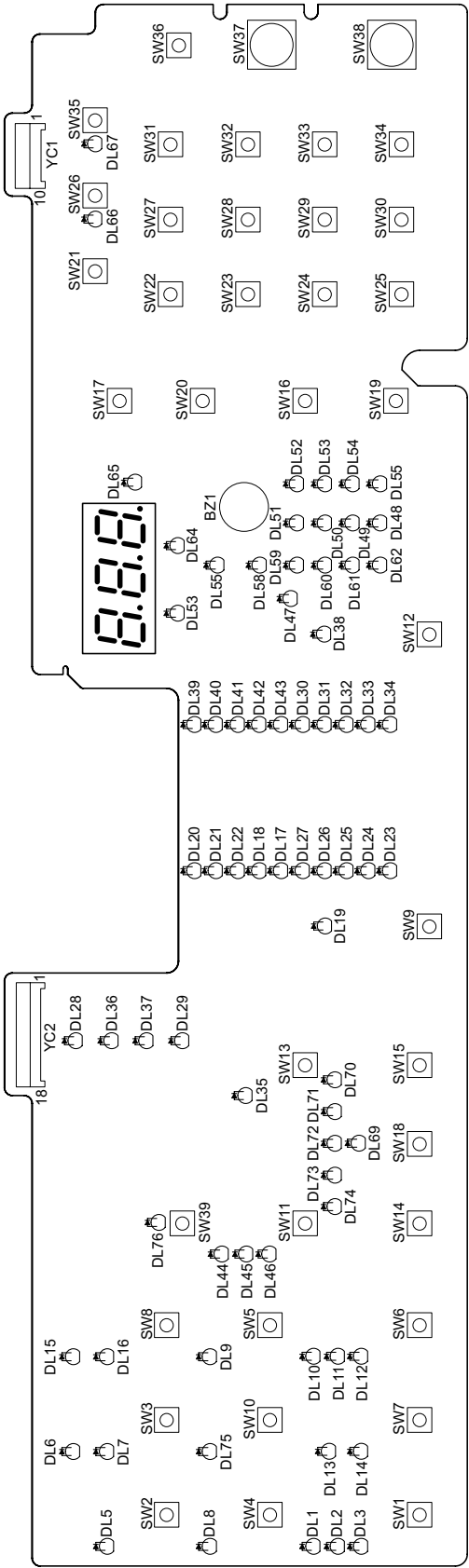


Figure 2-3-4 Operation PWB silk-screen diagram

Connector	Pin No.	Signal	I/O	Voltage	Description
YC1 Connected to the main/ engine PWB	1	+5V	I	5 V DC	5 V DC power input from MEPWB
	2	BUZERDRN	I	0/3.3 V DC	OPWB buzzer signal
	3	SCAN7	I	0/3.3 V DC (pulse)	Scan signal 7
	4	SCAN6	I	0/3.3 V DC (pulse)	Scan signal 6
	5	SCAN5	I	0/3.3 V DC (pulse)	Scan signal 5
	6	SCAN4	I	0/3.3 V DC (pulse)	Scan signal 4
	7	SCAN3	I	0/3.3 V DC (pulse)	Scan signal 3
	8	SCAN2	I	0/3.3 V DC (pulse)	Scan signal 2
	9	SCAN1	I	0/3.3 V DC (pulse)	Scan signal 1
	10	SCAN0	I	0/3.3 V DC (pulse)	Scan signal 0
YC2 Connected to the main/ engine PWB	1	LED0	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 0
	2	LED1	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 1
	3	LED2	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 2
	4	LED3	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 3
	5	LED4	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 4
	6	LED5	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 5
	7	LED6	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 6
	8	LED7	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 7
	9	LED8	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 8
	10	LED9	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 9
	11	LED10	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 10
	12	LED11	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 11
	13	LED12	O	0/3.3 V DC (pulse)	Operation panel indicator LED drive signal 12
	14	KEY0	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 0
	15	KEY1	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 1
	16	KEY2	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 2
	17	KEY3	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 3
	18	KEY4	I	0/3.3 V DC (pulse)	Operation panel key scan return signal 4

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Maintenance parts list

Maintenance part name		Part No.	Alternative part	Fig. No.	Ref. No.
Name used in service manual	Name used in parts list				
Paper feed pulley	PULLEY, PAPER FEED	2AR07220	-	3	4
Separation pulley	PULLEY, SEPARATION	2AR07230	-	3	5
Forwarding pulley	PULLEY, LEADING FEED	2AR07240	-	3	6
MP paper feed pulley	PULLEY BYPASS	302KK08210	2KK08210	5	38
MP separation pad	PARTS BYPASS PAD ASSY SP	302KK94450	2KK94450	4	A01
Left registration roller	PARTS ROLLER REGIST LEFT SP	302KK94230	2KK94230	5	40
Right registration roller	RIGHT ROLL REGIST	302KK24140	2KK24140	5	43
Slit glass	CONTACT GLASS ADF	2C912280	-	8	9
Contact glass	CONTACT GLASS	2C912250	-	8	19
Mirror 1	MIRROR A	302KK17320	2KK17320	7	36
Mirror 2 and mirror 3	MIRROR B	302KK17330	2KK17330	7	37
Lens	LENS	-	-	-	-
Reflector	REFLECTOR SCANNER	2C912110	-	7	16
Exposure lamp	PARTS LAMP SCANNER SP	302KK94220	2KK94220	7	35
Optical rail	RAIL SCANNER	-	-	-	-
Original size detection sensor	SENSOR ORIGINAL	2C927090	-	7	2
Laser scanner unit	LK-460	302KK93060	2KK93060	9	1
Transfer roller	ROLLER TRANSFER	302C917011	2C917011	5	12
Separation electrode	PLATE STA ELIMINATION	2C917080	-	5	24
Developing unit	DV-460	302KK93020	2KK93020	11	A01
Main charger unit	MC-460	302KK93080	2KK93080	10	A02
Fuser unit	FK-460(A)	302KK93040	2KK93040	12	A01
	FK-460(E)	302KK93050	2KK93050	12	A01
Heat roller	PARTS ROLLER HEAT SP	302KK94240	2KK94240	12	10
Press roller	PARTS ROLLER PRESS SP	302KK94290	2KK94290	12	13
Heat roller separation claw	SEPARATOR ASSY	302FT20120	2FT20120	12	5
Eject roller	PARTS ROLLER EXIT INNER SP	302KK94300	2KK94300	15	19
Eject pulley	PULLEY EXIT	302KK28030	2KK28030	15	12
Switchback roller	PARTS ROLLER FEED SHIFT SP	302KK94310	2KK94310	15	20
Switchback pulley	PULLEY FEED SHIFT	2C921040	-	4	26

Periodic maintenance procedures

Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Test copy and test print	Perform at the maximum copy size	Test copy	Every service		



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Paper feed section	Paper feed pulley	Check or replace	User call	Clean it with alcohol if it is dirty. Replace it if any problem such as flawed or worn state is found.	P.1-5-6
	Separation pulley	Check or replace	User call	Clean it with alcohol if it is dirty. Replace it if any problem such as flawed or worn state is found.	P.1-5-3
	Forwarding pulley	Check or replace	User call	Clean it with alcohol if it is dirty. Replace it if any problem such as flawed or worn state is found.	P.1-5-6
	MP paper feed pulley	Check, replace or clean	Every service	Clean it with alcohol if it is dirty. Replace it if any problem such as flawed or worn state is found.	P.1-5-11
	MP separation pad	Check or replace	User call	Clean it with alcohol if it is dirty. Replace it if any problem such as flawed or worn state is found.	P.1-5-11
	Left registration roller	Check, replace or clean	Every service	Clean with alcohol or a dry cloth. Replace it if any problem such as flawed or worn state is found.	P.1-5-14
	Right registration roller	Check, replace or clean	Every service	Clean with alcohol or a dry cloth.	P.1-5-15



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Optical section	Slit glass	Clean	Every service	Clean with a dry cloth (do not clean with a wet cloth or alcohol).	P.1-5-17
	Contact glass	Clean	Every service	Clean with alcohol and then a dry cloth.	
	Mirror 1	Clean	User call	Clean with a wet cloth and then a dry cloth only if vertical black lines appear on the print image.	
	Mirror 2 and mirror 3	Clean	User call	Clean with a wet cloth and then a dry cloth only if vertical black lines appear on the print image.	
	Lens	Clean	User call	Clean with a dry cloth only if vertical black lines appear on the print image.	
	Reflector	Clean	User call	Clean with a dry cloth only if vertical black lines appear on the print image.	
	Exposure lamp	Check or replace	User call	Replace if an image problem occurs or after the exposure lamp does not turn on.	
	Optical rail	Check or grease	User call	Check noise and shifting and then apply optical rail grease EM-50LP.	
	Original size detection sensor	Check or clean	User call	Clean the sensor emitter and sensor receiver with alcohol or a dry cloth only if there is a problem.	
	Laser scanner unit	Check or clean	User call	Clean the slit glass with alcohol and then a dry cloth.	P.1-5-28



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Transfer/separation section	Transfer roller	Clean	User call	Vacuum or clean with a dry cloth when user call occurs.	P.1-5-38
	Separation electrode	Check or clean	User call	Clean with a cleaning brush.	



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Developing section	Developing unit	Check or replace	User call	Replace if the problem occurs.	P.1-5-37



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Drum section	Main charger unit	Check or replace	Every service	Replace if an image problem occurs.	P.1-5-36



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Fuser section	Fuser unit	Check or replace	User call	Replace if the problem occurs.	P.1-5-40
	Heat roller	Clean	150K	Clean with alcohol or a dry cloth.	P.1-5-48
	Press roller	Clean	150K	Clean with alcohol or a dry cloth.	P.1-5-42
	Heat roller separation claw	Check, replace or clean	Every service	Clean with alcohol. Replace if claw is flawed, deformed or worn.	P.1-5-47



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Eject section	Eject roller	Check or clean	User call	Clean it with alcohol if it is dirty.	
	Eject pulley	Check or clean	User call	Clean it with alcohol if it is dirty.	
	Switchback roller	Check or clean	User call	Clean it with alcohol if it is dirty.	
	Switchback pulley	Check or clean	User call	Clean it with alcohol if it is dirty.	

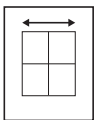
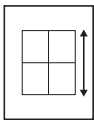
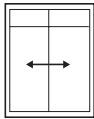
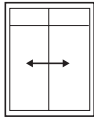
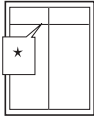
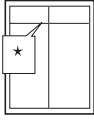
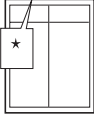
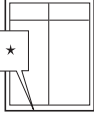
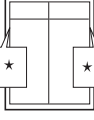
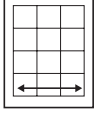


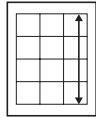
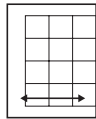
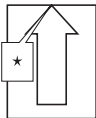
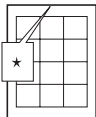
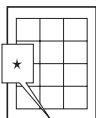
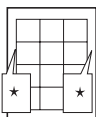
Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Covers	Covers	Clean	Every service	Clean with alcohol or a dry cloth.	
	Original cover	Clean	Every service	Clean with alcohol or a dry cloth.	



Section	Maintenance part/location	Method	Maintenance cycle	Points and cautions	Page
Other	Image quality	Check and adjust	Every service		

Chart of image adjustment procedures

Adjusting order	Item	Image	Description	Maintenance mode		Original	Page	Remarks
				Item No.	Mode			
1	Adjusting the magnification in the main scanning direction (printing adjustment)		Polygon motor speed adjustment	U053	Exp.2 (light)	U053 test pattern	P.1-3-17	
2	Adjusting the magnification in the auxiliary scanning direction (printing adjustment)		Drive motor speed adjustment	U053	Exp.1 (light)	U053 test pattern	P.1-3-17	
3	Adjusting the center line of the MP tray (printing adjustment)		Adjusting the LSU print start timing	U034	Exp.2 (light)	U034 test pattern	P.1-3-13	
4	Adjusting the center line of the cassettes (printing adjustment)		Adjusting the LSU print start timing	U034	Exp.1 (light)	U034 test pattern	P.1-3-13	First paper feeder: select exp.3 (light) Second paper feeder: select exp.4 (light) Third paper feeder: select exp.5 (light) Duplex copying: select exp.1 (flashing)
5	Adjusting the leading edge registration of the MP tray (printing adjustment)		Registration clutch turning on timing (secondary paper feed start timing)	U034	Exp.2 (light)	U034 test pattern	P.1-3-12	
6	Adjusting the leading edge registration of the cassettes (printing adjustment)		Registration clutch turning on timing (secondary paper feed start timing)	U034	Exp.1 (light)	U034 test pattern	P.1-3-12	First paper feeder: select exp.3 (light) Second paper feeder: select exp.4 (light) Third paper feeder: select exp.5 (light) Duplex copying: select exp.1 (flashing)
7	Adjusting the leading edge margin (printing adjustment)		LSU illumination start timing	U402	Exp.1 (light)	U402 test pattern	P.1-3-50	
8	Adjusting the trailing edge margin (printing adjustment)		LSU illumination end timing	U402	Exp.3 (light)	U402 test pattern	P.1-3-50	
9	Adjusting the left and right margins (printing adjustment)		LSU illumination start/end timing	U402	Exp.2 (light)	U402 test pattern	P.1-3-50	
10	Adjusting magnification of the scanner in the main scanning direction (scanning adjustment)		Data processing	U065	Exp.1 (light)	Test chart	P.1-3-19	No adjustment for copying using the DP.

Adjusting order	Item	Image	Description	Maintenance mode		Original	Page	Remarks
				Item No.	Mode			
11	Adjusting magnification of the scanner in the auxiliary scanning direction (scanning adjustment)		Original scanning speed	U065	Exp.2 (light)	Test chart	P.1-3-19	U065: For copying an original placed on the contact glass. U070: For copying originals from the DP. Duplex copying: select exp.2 (light)
				U070	Exp.1 (light)		P.1-3-23	
12	Adjusting the center line (scanning adjustment)		Adjusting the original scan data (image adjustment)	U067	-	Test chart	P.1-3-21	U067: For copying an original placed on the contact glass. U072: For copying originals from the DP. Duplex copying: select exp.2 (light)
				U072	Exp.1 (light)		P.1-3-25	
13	Adjusting the leading edge registration (scanning adjustment)		Original scan start timing (image adjustment)	U066	-	Test chart	P.1-3-20	U066: For copying an original placed on the contact glass. U071: For copying originals from the DP. Duplex copying: select exp.3 (light)
				U071	Exp.1 (light)		P.1-3-24	
14	Adjusting the leading edge margin (scanning adjustment)		Adjusting the original scan data (image adjustment)	U403	Exp.2 (light)	Test chart	P.1-3-51	U403: For copying an original placed on the contact glass. U404: For copying originals from the DP.
				U404	Exp.2 (light)		P.1-3-52	
15	Adjusting the trailing edge margin (scanning adjustment)		Adjusting the original scan data (image adjustment)	U403	Exp.4 (light)	Test chart	P.1-3-51	U403: For copying an original placed on the contact glass. U404: For copying originals from the DP.
				U404	Exp.4 (light)		P.1-3-52	
16	Adjusting the left and right margins (scanning adjustment)		Adjusting the original scan data (image adjustment)	U403	Exp.1/Exp.3 (light)	Test chart	P.1-3-51	U403: For copying an original placed on the contact glass. U404: For copying originals from the DP.
				U404	Exp.1/Exp.3 (light)		P.1-3-52	

When maintenance item U092 (Adjusting the scanner automatically) is run using the specified original (P/N 302FZ56990), the following adjustments are automatically made:
 Adjusting the scanner magnification (U065)
 Adjusting the scanner leading edge registration (U066)
 Adjusting the scanner center line (U067)

When maintenance item U076 (Adjusting the DP automatically) is run using the specified original (P/N 302AC68243), the following adjustments are automatically made:
 Adjusting the DP magnification (U070)
 Adjusting the DP scanning timing (U071)
 Adjusting the DP center line (U072)

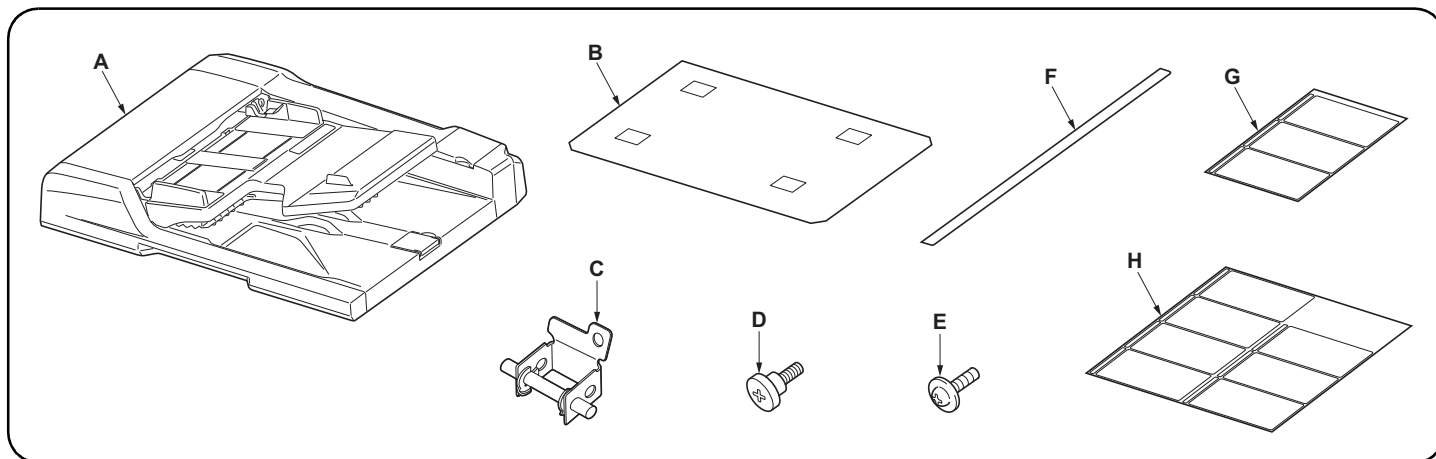
Image quality

Item	Specifications
100% magnification	Machine: $\pm 0.8\%$ Using DP: $\pm 1.5\%$
Enlargement/reduction	Machine: $\pm 1.0\%$ Using DP: $\pm 1.5\%$
Lateral squareness	Machine: ± 1.5 mm/375 mm Using DP: ± 3.0 mm/375 mm
Leading edge registration	Cassette: ± 2.5 mm MP tray: ± 2.5 mm Duplex mode: ± 2.5 mm
Skewed paper feed	Cassette: 1.5 mm or less MP tray: 1.5 mm or less Duplex mode: 2.0 mm or less
Left-right difference	Cassette: 2.0 mm or less MP tray: 2.0 mm or less Duplex mode: 3.0 mm or less
Curling	Simplex mode: 10.0 mm or less Duplex mode: 10.0 mm or less



INSTALLATION GUIDE FOR DOCUMENT PROCESSOR

Output Connector for Interconnecting Cable is non-LPS.
Output: 114.5 VA max.
Please use the item below Interconnecting Cable/
P/N: 303MX46010



English

Supplied parts

A Document processor (DP)	1
B Original mat	1
C Angle adjusting plate	1
D Pin	2
E M4 × 14 screw	5

F Film	1
G Label A (for 120 V specifications • for 220 V - 240 V specifications)	1
H Label B (for 220 V - 240 V specifications)	1

Be sure to remove any tape and/or cushioning material from supplied parts.

Procedure

Before installing the document processor, be sure to turn the main power switch of the machine off and unplug the power cable from the wall outlet.

Français

Pièces fournies

A Chargeur de document (DP)	1
B Tapis d'original	1
C Plaque de réglage d'angle	1
D Goupille	2
E Vis M4 × 14	5

F Film	1
G Étiquette A (pour les spécifications 120 V • pour les spécifications 220 V - 240 V)	1
H Étiquette B (pour les spécifications 220 V - 240 V)	1

Veillez à retirer les morceaux de bande adhésive et/ou les matériaux de rembourrage des pièces fournies.

Procédure

Avant d'installer le chargeur de document, veuillez à mettre la machine hors tension et à débrancher le câble d'alimentation de la prise murale.

Español

Piezas suministradas

A Procesador de documentos (DP)	1
B Plancha de originales	1
C Placa de ajuste de ángulo	1
D Pasador	2
E Tornillo M4 × 14	5

F Película	1
G Etiqueta A (especificaciones de 120 V • especificaciones de 220 V - 240 V)	1
H Etiqueta B (especificaciones de 220 V - 240 V)	1

Asegúrese de despegar todas las cintas y/o material amortiguador de las partes suministradas.

Procedimiento

Antes de instalar el procesador de documentos, asegúrese de desconectar el interruptor principal de la máquina y desenchufar el cable eléctrico del tomacorriente de la pared.

Deutsch

Gelieferte Teile

A Vorlageneinzug (DP)	1
B Originalmatte	1
C Winkleinstellhalter	1
D Rändelschraube	2
E M4 × 14 Schraube	5

F Films	1
G Aufkleber A (für 120 V-Spezifikationen • 220 V - 240 V -Spezifikationen)	1
H Aufkleber B (für 220 V - 240 V -pezifikationen)	1

Entfernen Sie Klebeband und/oder Dämpfungsmaterial vollständig von den mitgelieferten Teilen.

Verfahren

Schalten Sie unbedingt den Betriebsschalter der Maschine aus, und trennen Sie das Netzkabel von der Netzsteckdose, bevor Sie den Vorlageneinzug installieren.

Italiano

Parti di fornitura

A Alimentatore di originali (DP)	1
B Coprioriginale	1
C Piastra di regolazione dell'angolo	1
D Perno	2
E Vite M4 × 14	5

F Película	1
G Etichetta A (specifiche solo per 120V • specifiche solo per 220 V - 240 V esteri)	1
H Etichetta B (specifiche solo per 220 V - 240 V)	1

Accertarsi di rimuovere tutti i nastri adesivi e/o il materiale di imbottitura dalle parti fornite.

Procedura

Prima di installare l'alimentatore di originali, assicurarsi di spegnere l'interruttore principale di alimentazione della macchina e scollegare la spina del cavo di alimentazione dalla presa a muro della rete elettrica.

简体中文

附属品

A 送稿器 (DP)	1
B 原稿垫	1
C 调整板	1
D 卡销	2
E 螺丝 M4 × 14	5

F 薄膜	1
G 标签 A (120V 规格产品 • 220V-240V 规格产品 1)	1
H 标签 B (220V-240V 规格产品)	1

如果附属品上带有固定胶带、缓冲材料时务必揭下。

安装步骤

安装 DP 时，必须先关闭机器主机的主电源开关，并拔下电源插头后，再进行安装作业。

日本語

同梱品

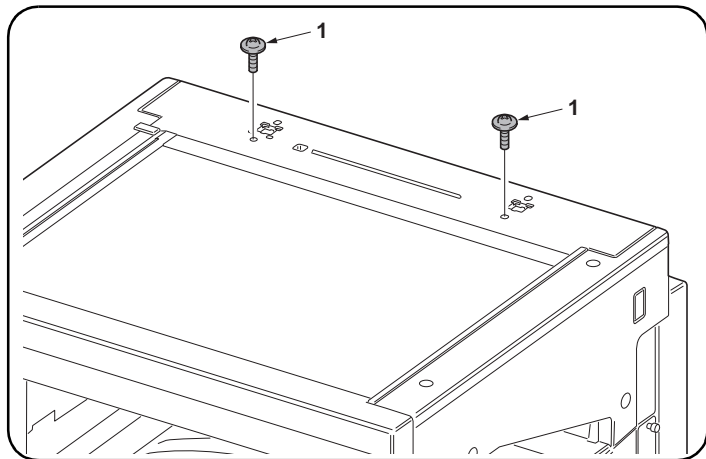
A 原稿送り装置 (DP)	1
B 原稿マット	1
C 調整板	1
D ビン	2
E ビス M4 × 14	5

F フィルム	1
G ラベル A (120V 仕様・220V-240V 仕様) ..	1
H ラベル B (220V-240V 仕様)	1

同梱品に固定テープ、緩衝材が付いている場合は必ず取り外すこと。

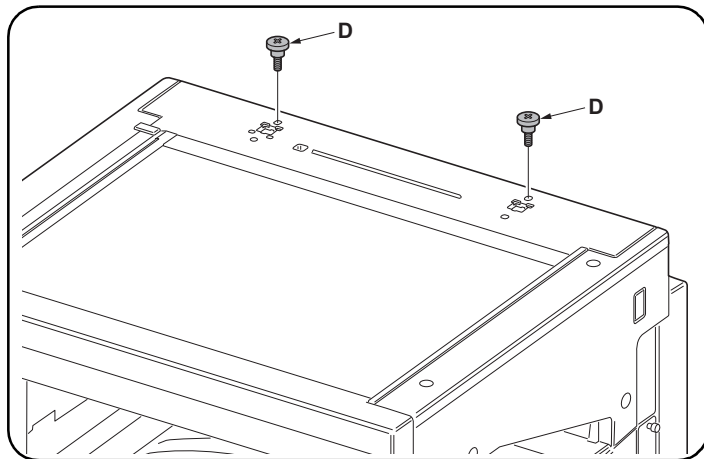
取付手順

DP を設置する場合は、機械本体の主電源スイッチを OFF にし、電源プラグを抜いてから作業をおこなう。



Installing the DP

1. Remove the 2 screws (1).



2. Install 2 pins (D).

Installation du DP

1. Déposez les 2 vis (1).

2. Installez 2 goupilles (D).

Instalación del DP

1. Quite los 2 tornillos (1).

2. Instale 2 pasadores (D).

Installieren des DP

1. Entfernen Sie die 2 Schrauben (1).

2. 2 Rändelschrauben (D) eindrehen.

Installazione del DP

1. Rimuovere le 2 viti (1).

2. Inserire 2 perni (D).

安装 DP

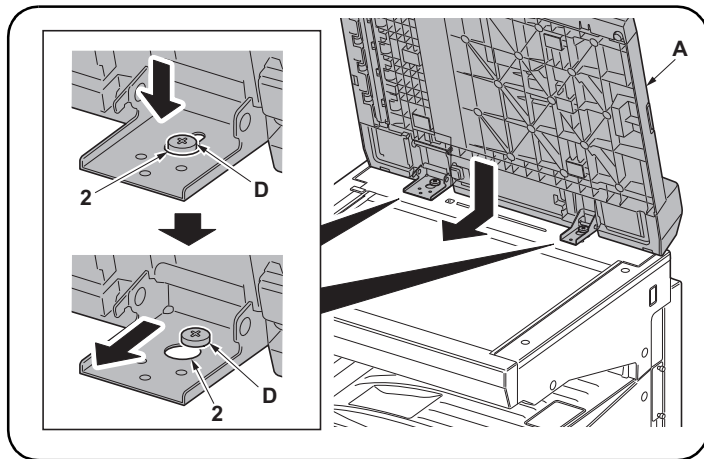
1. 取下 2 个螺丝 (1)。

2. 装上 2 个卡销 (D)。

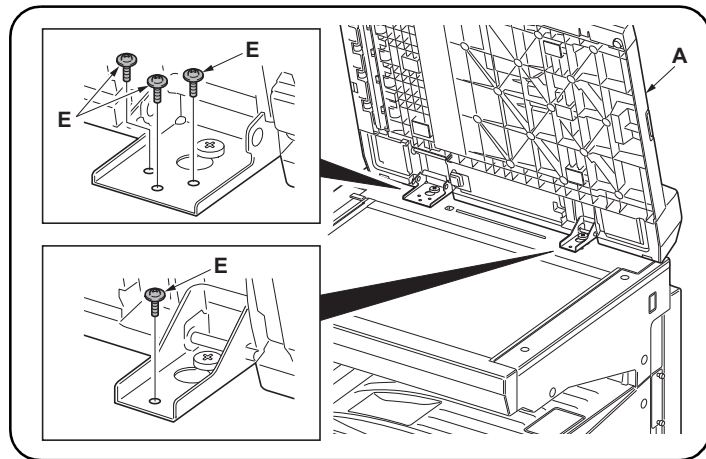
DP の取り付け

1. ビス (1) 2 本を取り外す。

2. ピン (D) 2 本を取り付ける。



3. Insert the pins (D) into the hinge holes (2) of DP (A) and slide the DP (A) toward the front side to install it.



4. Fix the DP (A) using four M4 x 14 screws (E).
Right: One
Left: Three

3. Insérez les goupilles (D) dans les orifices de charnière (2) du DP (A), puis faites glisser le DP (A) vers l'avant pour l'installer.

4. Fixez le DP (A) à l'aide de quatre vis M4 x 14 (E).
Côté droit: Une
Côté gauche: Trois

3. Inserte los pasadores (D) en los orificios de bisagra (2) del DP (A) y deslice el DP (A) hacia el lado frontal para instalar.

4. Fije el DP (A) utilizando cuatro tornillos M4 x 14 (E).
Derecho: Uno
Izquierdo: Tres

3. Die Rändelschrauben (D) in die Scharnierlöcher (2) des DP (A) einführen, und den DP (A) zum Installieren nach vorn schieben.

4. Den DP (A) mit vier M4 x 14 Schrauben (E) befestigen.
Rechts: Eine
Links: Drei

3. Inserire i perni (D) nei fori della cerniera (2) del DP (A) e fare scorrere il DP (A) verso il lato anteriore per installarlo.

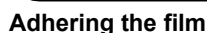
4. Fissare il DP (A) utilizzando quattro viti M4 x 14 (E).
Destra: Una
Sinistra: Tre

3. 将卡销 (D) 插入 DP (A) 的铰链部孔 (2)，向跟前滑动装上 DP (A)。

4. 用 4 个螺丝 M4 x 14 (E) 固定 DP (A)。
右侧: 1 个
左侧: 3 个

3. DP 本体 (A) のヒンジ部の穴 (2) にピン (D) を挿入し、DP 本体 (A) を手前にスライドして取り付ける。

4. ビス M4 x 14 (E) 4 本で DP (A) を固定する。
右側: 1 本
左側: 3 本



- ### Adhésion du film

- ### Fijación de la película

- ## Anbringen des Films

- ## Applicazione della pellicola

- ### 粘貼薄膜

- ## フィルム貼り付け

- ### Attaching the original mat

8. Close the DP (A) slowly to attach the original mat (B) onto it with the hook and loop fasteners.

Fixation du tapis d'original

- Aligner le coin du plateau d'original (B) faisant un angle de 90 degrés avec le coin gauche interne du panneau d'instructions d'original.**

8. Refermez progressivement le DP (A) pour fixer le tapis d'original (B) sur celui-ci avec le crochet et les attaches à boucle.

Colocación de la plancha de originales

- Alinee la esquina que tiene un ángulo de 90 grados de la alfombra para originales (B) con la esquina interior izquierda del panel de instrucciones para el original.**

8. Cierre lentamente el DP (A) para colocar la plancha de originales (B) con el gancho y fijadores de bucle.

Anbringen der Originalmatte

- Die Ecke der Originalmatte (B), die einen 90-Grad-Winkel aufweist, mit der linken, inneren Kante des Originalbedienfeldes ausrichten.

8. Den DP (A) langsam schließen, so dass die Originalmatte (B) mit den Klettverschlüssen an ihm haftet.

Montaggio del coprioriginale

- Allineare l'angolo di 90 gradi del coprioriginale (B) con l'angolo interno sinistro del pannello di controllo originale.**

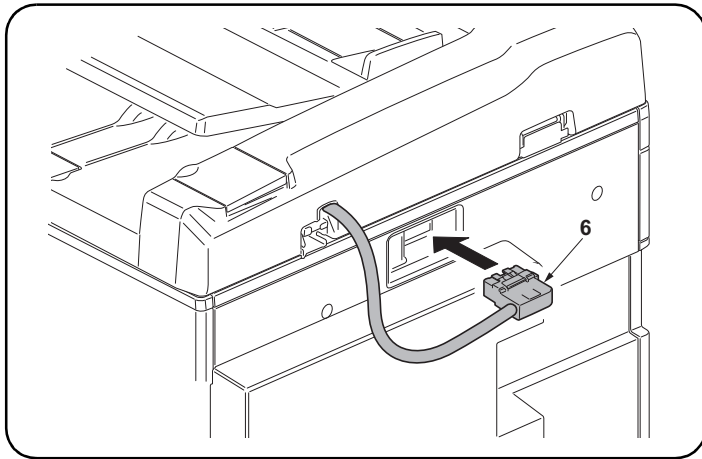
- 8. Chiudere lentamente il DP (A) in modo che il coprioriginale (B) vi si possa fissare mediante il nastro velcro.**

安装原稿垫

7. 将带有尼龙带的原稿垫 (B) 朝上, 放在原稿玻璃板上。
将原稿垫 (B) 成 90° 角的部分对准原稿玻璃板的左内角。
8. 轻轻地放下 DP (A), 使原稿垫 (B) 粘在 DP 背面上。

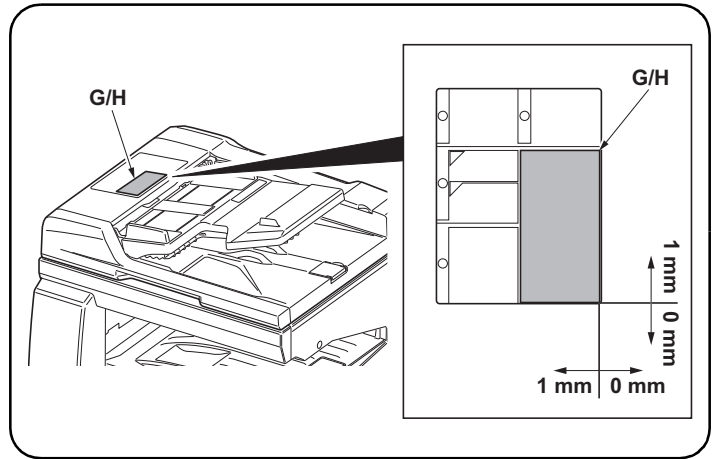
原稿マットの取り付け

7. 原稿マット (B) をマジックテープが付いている面を上にして、原稿ガラス上に置く。
原稿マット (B) は、90° になっている角を原稿指示板の左奥 (5) に合わせること。
8. DP 本体 (A) をゆっくりと下ろし、原稿マット (B) を DP 裏面に貼り付け



Connecting the signal cable

9. Connect the connector (6) of the signal cable to the machine.
Do not twist the signal cable.



Adhering the labels

10. After cleaning with alcohol, adhere operation label A (G) or B (H) of the corresponding language.

Connexion du câble de signal

9. Branchez le connecteur (6) du câble de signal sur la machine.
Attention à ne pas tordre le câble de signal.

Apposition des étiquettes

10. Après avoir nettoyé avec de l'alcool, apposez l'étiquette de précautions [Veillez à ne pas laisser d'originaux dans le bac d'éjection.] (F), l'étiquette de précautions [Face vers le Haut] (G), et l'étiquette [Procédure d'utilisation] (H) dans la langue voulue.

Conexión del cable de señal

9. Conecte el conector (6) del cable de señal en la máquina.
No tuerza el cable de señal.

Pegado de etiquetas

10. Después de limpiar con alcohol, pegue la etiqueta de precaución [No deje documentos en el equipo.] (F), etiqueta de precaución [Cara Arriba] (G) y la etiqueta [Procedimiento de funcionamiento] (H) del correspondiente idioma.

Anschließen des Signalkabels

9. Den Stecker (6) des Signalkabels an die Maschine anschließen.
Das Signalkabel nicht verdrehen.

Anbringen der Aufkleber

10. Nach der Reinigung der Klebeflächen mit Alkohol den Warnaufkleber [Lassen Sie keine Originale auf dem Gerät liegen.] (F), den Warnaufkleber [Vorderseite Oben] (G) und den Aufkleber [Bedienungsverfahren] (H) der entsprechenden Sprache anbringen.

Collegamento del cavo del segnale

9. Collegare il connettore (6) del cavo del segnale alla macchina.
Non attorcigliare il cavo del segnale.

Applicazione delle etichette

10. Dopo avere pulito con alcol, applicare l'etichetta di avvertenza [Non lasciare i documenti sul dispositivo.] (F), l'etichetta di avvertenza [Faccia Insù] (G) e l'etichetta [Procedure di funzionamento] (H) redatte nella lingua corrispondente.

连接信号线

9. 连接信号线的插头 (6)。
请勿缠绕信号线。

贴上标签

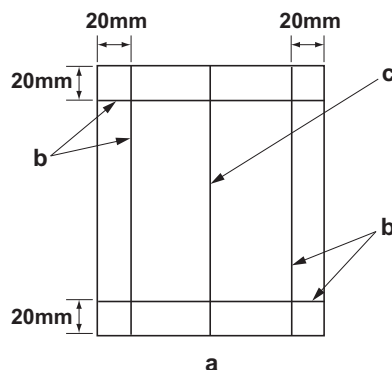
10. 用酒精清洁后，贴上对应语言的操作标签 (G) (H)。

信号線の接続

9. 信号線のコネクタ (6) を接続する。
信号線をねじらないこと。

ラベルの貼り付け

10. アルコール清掃後、該当する言語の操作ラベル A (G) またはラベル B (H) を、基準値の範囲内に貼り付ける。



Checking the operation

1. To check the machine operation, prepare an A3 size original (a) where four lines (b) are drawn 20 mm from the edges and one line (c) is drawn at the center.
2. Connect the power plug to the wall outlet and turn the main power switch on. Load A3 paper into the 1st level cassette.
3. Set the original (a) on the DP original table and run a proof copy. Check the operation and the copy example.
4. If the gap between the original (a) and the copy example exceeds the reference value, perform adjustments. For the procedure, see the following pages.

Before checking image from the DP, check and adjust image from the machine. For details, see the service manual of the machine.

Vérification du fonctionnement

1. Pour vérifier le fonctionnement de la machine, préparez un original de format A3 (a) sur lequel quatre lignes (b) ont été tracées à 20 mm des bords, et sur lequel une ligne (c) a été tracée au centre.
2. Insérer la fiche d'alimentation de la machine dans la prise murale et mettre la machine sous tension.
3. Placez l'original (a) dans le DP et effectuez une copie de test pour vérifier le fonctionnement et l'exemple de copie.
4. Si l'écart entre l'original (a) et l'exemple de copie est supérieur à la valeur de référence, effectuez les réglages nécessaires. Pour la marche à suivre, reportez-vous aux pages suivantes.

Avant de vérifier l'image sur le DP, vérifiez et réglez l'image sur la machine. Pour plus de détails, se reporter au manuel de service de la machine.

Verificación del funcionamiento

1. Para verificar el funcionamiento de la máquina, prepare un original de tamaño A3 (a) donde se dibujan cuatro líneas (b) a 20 mm de los bordes y una línea (c) dibujada en el centro.
2. Conecte el enchufe eléctrico de la máquina en un tomacorriente de la pared y conecte el interruptor principal.
3. Coloque el original (a) en el DP y haga una copia de prueba para verificar el funcionamiento y una copia de muestra.
4. Si la separación entre el original (a) y la copia de muestra supera el valor de referencia, haga los ajustes. Para el procedimiento, vea las siguientes páginas.

Antes de verificar la imagen del DP, verifique y ajuste la imagen desde la máquina. Para detalles, vea el manual de servicio de la máquina.

Überprüfen des Betriebs

1. Um den Betrieb der Maschine zu prüfen, ein A3-Original (a) vorbereiten, das vier Linien (b) im Abstand von 20 mm von den Kanten und eine Linie (c) in der Mitte aufweist.
2. Den Netzstecker der Maschine in die Steckdose stecken und den Betriebsschalter einschalten.
3. Das Original (a) in den DP einlegen und eine Probekopie anfertigen, um den Betrieb und das Kopienmuster zu prüfen.
4. Falls die Abweichung zwischen dem Original (a) und dem Kopienmuster den Bezugswert überschreitet, müssen Einstellungen durchgeführt werden. Das Verfahren ist auf den folgenden Seiten beschrieben.

Bevor das Bild vom DP geprüft wird, ist das Bild von der Maschine zu prüfen und einzustellen. Einzelheiten sind der Wartungsanleitung der Maschine zu entnehmen.

Controllo del funzionamento

1. Per controllare il funzionamento della macchina, preparare un originale di formato A3 (a) dove sono state tracciate quattro linee (b) a 20 mm dai bordi e una linea (c) centrale.
2. Collegare la spina del cavo di alimentazione della macchina alla presa a muro della rete elettrica e accendere l'interruttore principale di alimentazione.
3. Collocare l'originale (a) nel DP e fare una copia di prova per controllare il funzionamento della macchina e l'esempio di copia.
4. Se la differenza tra l'originale (a) e la copia di prova supera il valore di riferimento, eseguire le regolazioni. Per la procedura, leggere le seguenti pagine.

Prima di controllare l'immagine dal DP, controllare e regolare l'immagine dalla macchina. Per ulteriori dettagli, leggere il manuale d'istruzioni della macchina.

操作确认

1. 准备好 A3 尺寸的纸张（在边起 20mm 处划有 4 条线 (b)）和操作确认用原稿 (a)（在纸张中心划有 1 条线 (c)）。
2. 将机器主机上的电源插头插入插座中，打开主电源开关。将 A3 纸张装入第一纸盒。
3. 将原稿 (a) 放在 DP 上，进行测试复印。
确认操作和测印件的状态。
4. 如果原稿 (a) 和测印件的偏移超过标准值时，需要进行调整。（调整方法参照下页以后）
确认和调整机器主机的图像后，必须对 DP 图像进行确认。详情请参照机器主机的维修手册。

動作確認

1. A3 サイズの用紙の端から 20mm の位置に線 (b) 4 本と、用紙の中心に線 (c) 1 本を引いた動作確認用の原稿 (a) を用意する。
2. 機械本体の電源プラグをコンセントに差し込み、主電源スイッチを ON にする。カセット 1 段目に A3 用紙を入れる。
3. 原稿 (a) を DP の原稿テーブルにセットし、テストコピーをおこなう。
動作およびコピーサンプルを確認する。
4. 原稿 (a) とコピーサンプルのずれが基準値から外れている場合は調整をおこなう。（調整方法は、次ページ以降を参照）
機械本体の画像確認および調整をおこなってから、DP の画像確認をおこなうこと。詳細は機械本体のサービスマニュアル参照

<<Checking image from the DP>>

Be sure to adjust in the following order. If not, the adjustment cannot be performed correctly.

For checking the angle of leading edge, see page 8. <Reference value> Simplex copying: within ± 3.0 mm; Duplex copying: within ± 4.0 mm
For checking the angle of trailing edge, see page 11. <Reference value> Simplex copying: within ± 3.0 mm; Duplex copying: within ± 4.0 mm
For checking the magnification, see page 15. <Reference value> Within $\pm 1.5\%$
For checking the leading edge timing, see page 17. <Reference value> Simplex copying: within ± 2.0 mm; Duplex copying: within ± 2.0 mm
For checking the center line, see page 19. <Reference value> Simplex copying: within ± 2.0 mm; Duplex copying: within ± 3.0 mm
When using the original for adjustment, automatic adjustment of magnification, leading edge timing and center line can be performed at a time.
For the automatic adjustment using the original for adjustment, see page 21.

<<Vérification de l'image sur le DP>>

Veillez à effectuer le réglage en procédant dans l'ordre suivant. Sinon, il sera impossible d'obtenir un réglage correct.

Pour vérifier l'angle du bord avant, reportez-vous à la page 8. <Valeur de référence> Copie recto seul: $\pm 3,0$ mm max.; copie recto verso: $\pm 4,0$ mm max.
Pour vérifier l'angle du bord arrière, reportez-vous à la page 11. <Valeur de référence> Copie recto seul: $\pm 3,0$ mm max.; copie recto verso: $\pm 4,0$ mm max.
Pour vérifier l'agrandissement, reportez-vous à la page 15. <Valeur de référence> $\pm 1,5\%$ max.
Pour vérifier la synchronisation du bord avant, reportez-vous à la page 17. <Valeur de référence> Copie recto seul: $\pm 2,0$ mm max.; copie recto verso: $\pm 2,0$ mm max.
Pour vérifier la ligne médiane, reportez-vous à la page 19. <Valeur de référence> Copie recto seul: $\pm 2,0$ mm max.; copie recto verso: $\pm 3,0$ mm max.
Lorsque vous utilisez l'original pour effectuer le réglage, vous pouvez effectuer automatiquement le réglage de l'agrandissement, de la synchronisation du bord avant et de la ligne médiane en une seule fois. Pour le réglage automatique en utilisant l'original pour effectuer le réglage, reportez-vous à la page 21.

<<Verificación de la imagen del DP>>

Asegúrese de ajustar en el siguiente orden. De lo contrario, el ajuste no puede hacerse correctamente.

Para verificar el ángulo del borde superior, vea la página 8. <Valor de referencia> Copia simple: dentro de $\pm 3,0$ mm; Copia duplex: dentro de $\pm 4,0$ mm
Para verificar el ángulo del borde inferior, vea la página 11. <Valor de referencia> Copia simple: dentro de $\pm 3,0$ mm; Copia duplex: dentro de $\pm 4,0$ mm
Para verificar el cambio de tamaño, vea la página 15. <Valor de referencia> Dentro de $\pm 1,5\%$
Para verificar la sincronización del borde inferior, vea la página 17. <Valor de referencia> Copia simple: dentro de $\pm 2,0$ mm; Copia duplex: dentro de $\pm 2,0$ mm
Para verificar la línea central, vea la página 19. <Valor de referencia> Copia simple: dentro de $\pm 2,0$ mm; Copia duplex: dentro de $\pm 3,0$ mm
Cuando utilice el original para el ajuste, puede hacerse un ajuste automático del cambio de tamaño, sincronización del borde superior y línea central al mismo tiempo.
Para el ajuste automático utilizando el original para el ajuste, vea la página 21.

<<Überprüfen des Bilds vom DP>>

Die Einstellung in der folgenden Reihenfolge durchführen. Anderenfalls kann die Einstellung nicht korrekt durchgeführt werden.

Angaben zur Prüfung des Winkels der Vorderkante auf Seite 8. <Bezugswert> Simplexkopie: innerhalb $\pm 3,0$ mm; Duplexkopie: innerhalb $\pm 4,0$ mm
Angaben zur Prüfung des Winkels der Hinterkante auf Seite 11. <Bezugswert> Simplexkopie: innerhalb $\pm 3,0$ mm; Duplexkopie: innerhalb $\pm 4,0$ mm
Angaben zur Prüfung der Vergrößerung auf Seite 15. <Bezugswert> Innerhalb $\pm 1,5\%$
Angaben zur Prüfung des Vorderkanten-Timings auf Seite 17. <Bezugswert> Simplexkopie: innerhalb $\pm 2,0$ mm; Duplexkopie: innerhalb $\pm 2,0$ mm
Angaben zur Prüfung der Mittellinie auf Seite 19. <Bezugswert> Simplexkopie: innerhalb $\pm 2,0$ mm; Duplexkopie: innerhalb $\pm 3,0$ mm
Bei Verwendung des Originals für die Einstellung können die automatischen Einstellungen für Vergrößerung, Vorderkanten-Timing und Mittellinie gleichzeitig durchgeführt werden. Angaben zur automatischen Einstellung mithilfe des Originals auf Seite 21.

<<Controllo di immagine dal DP>>

Verificare che la regolazione avvenga nel seguente ordine. Altrimenti, la regolazione non potrà essere seguita correttamente.

Per controllare l'angolo del bordo principale, vedere pagina 8. <Valore di riferimento> Copia simplex: entro $\pm 3,0$ mm; Copia duplex: entro $\pm 4,0$ mm
Per controllare l'angolo del bordo di uscita, vedere pagina 11. <Valore di riferimento> Copia simplex: entro $\pm 3,0$ mm; Copia duplex: entro $\pm 4,0$ mm
Per controllare l'ingrandimento, vedere pagina 15. <Valore di riferimento> Entro $\pm 1,5\%$
Per controllare la sincronizzazione del bordo principale, vedere pagina 17. <Valore di riferimento> Copia simplex: entro $\pm 2,0$ mm; Copia duplex: entro $\pm 2,0$ mm
Per controllare la linea centrale, vedere pagina 19. <Valore di riferimento> Copia simplex: entro $\pm 2,0$ mm; Copia duplex: entro $\pm 3,0$ mm
Quando si utilizza l'originale per la regolazione, la regolazione automatica dell'ingrandimento, della sincronizzazione del bordo principale e della linea centrale possono essere eseguiti contemporaneamente. Per la regolazione automatica eseguita con l'originale, vedere pagina 21.

<<图像确认>>

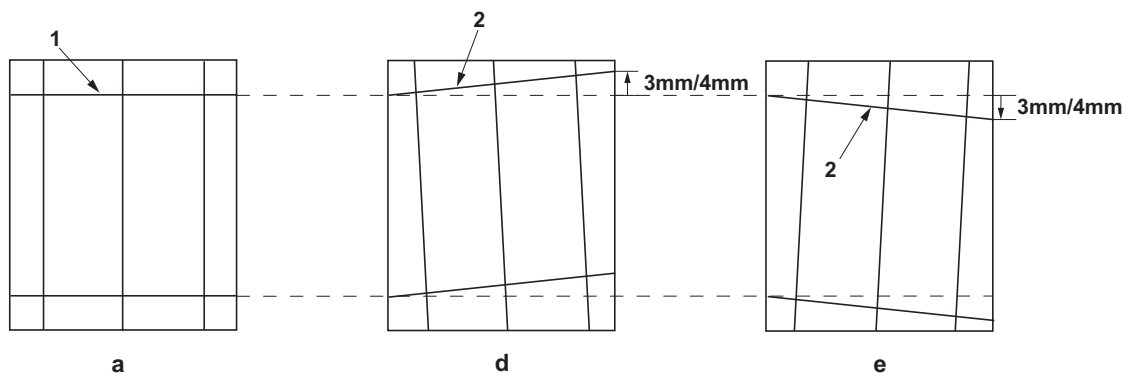
必须按照以下步骤进行调整,否则不能达到准确调整的要求。

• 确认前端倾斜度 第 8 页 <标准值> 单面: ± 3.0 mm 以内、双面: ± 4.0 mm 以内
• 确认后端倾斜度 第 11 页 <标准值> 单面: ± 3.0 mm 以内、双面: ± 4.0 mm 以内
• 确认等倍值 第 15 页 <标准值> $\pm 1.5\%$ 以内
• 确认前端定时调整 第 17 页 <标准值> 单面: ± 2.0 mm 以内、双面: ± 2.0 mm 以内
• 确认中心线 第 19 页 <标准值> 单面: ± 2.0 mm 以内、双面: ± 3.0 mm 以内
使用调整用原稿功能时,可以同时自动进行等倍值、前端定时以及中心线的调整。
• 通过调整用原稿进行自动调整 第 21 页

<<画像の確認>>

必ず下記の順序で調整を行うこと。順序通りに調整を行わない場合、正しい調整ができない。

• 先端斜め確認 8 ページ <基準値> 片面: ± 3.0 mm 以内、両面: ± 4.0 mm 以内
• 後端斜め確認 11 ページ <基準値> 片面: ± 3.0 mm 以内、両面: ± 4.0 mm 以内
• 等倍度確認 15 ページ <基準値> $\pm 1.5\%$ 以内
• 先端タイミング確認 17 ページ <基準値> 片面: ± 2.0 mm 以内、両面: ± 2.0 mm 以内
• センターライン確認 19 ページ <基準値> 片面: ± 2.0 mm 以内、両面: ± 3.0 mm 以内
調整用原稿を使用すると、等倍度調整、先端タイミング調整、センターライン調整の自動調整が一度におこなえる。
• 調整用原稿による自動調整 21 ページ



Checking the angle of leading edge

Check the gap between line (1) of original (a) and line (2) of copy example. If the gap exceeds the reference value, perform the following adjustment.

<Reference value>

For simplex copying: Within ± 3.0 mm

For duplex copying: Within ± 4.0 mm

Vérification de l'angle du bord avant

Vérifiez l'écart entre la ligne (1) de l'original (a) et la ligne (2) de l'exemple de copie. Si l'écart est supérieur à la valeur de référence, effectuez le réglage suivant.

<Valeur de référence>

Copie recto seul: $\pm 3,0$ mm max.

Copie recto verso: $\pm 4,0$ mm max.

Verificación del ángulo del borde superior

Verifique la separación entre la línea (1) del original (a) y la línea (2) de la copia de muestra. Si la separación supera el valor de referencia, haga el siguiente ajuste.

<Valor de referencia>

Para copia simple: Dentro de $\pm 3,0$ mm

Para copia duplex: Dentro de $\pm 4,0$ mm

Überprüfen des Winkels der Vorderkante

Die Abweichung der Linie (1) des Originals (a) und der Linie (2) des Kopienmusters prüfen. Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

<Bezugswert>

Für Simplexkopie: Innerhalb $\pm 3,0$ mm

Für Duplexkopie: Innerhalb $\pm 4,0$ mm

Controllo dell'angolo del bordo principale

Controllare la differenza tra la linea (1) dell'originale (a) e la linea (2) della copia di esempio. Se la differenza supera il valore di riferimento, effettuare la seguente regolazione.

<Valore di riferimento>

Per copia simplex: Entro $\pm 3,0$ mm

Per copia duplex: Entro $\pm 4,0$ mm

确认前端倾斜度

确认原稿 (a) 线 (1) 和复印件线 (2) 的偏移。如果超过标准值时, 必须进行调整。

<标准值>

单面时: ± 3.0 mm 以内

双面时: ± 4.0 mm 以内

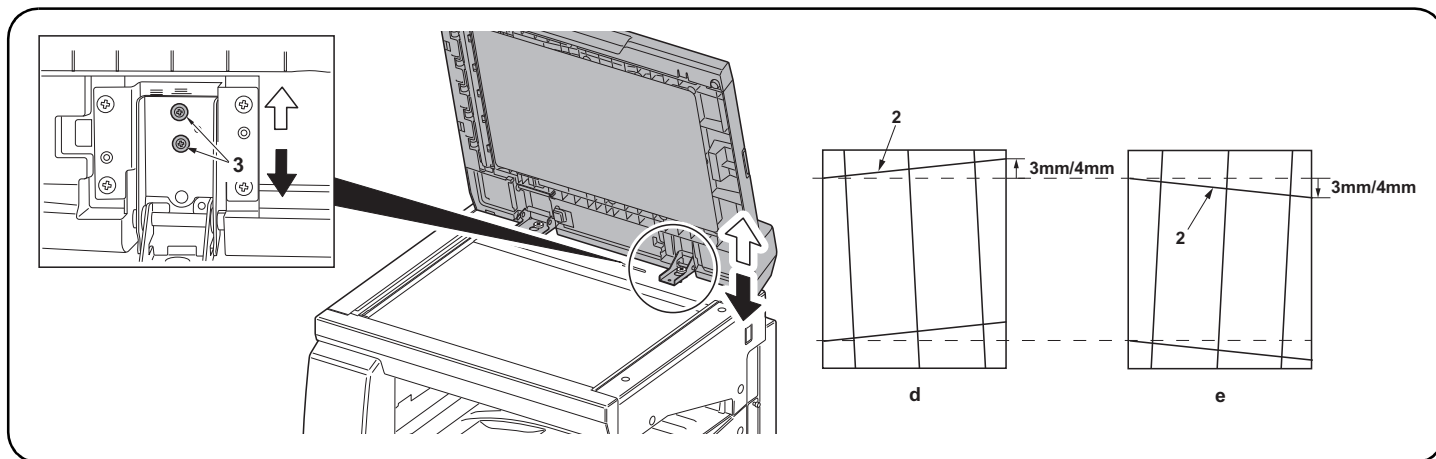
先端斜め確認

原稿 (a) の線 (1) とコピーサンプルの線 (2) のずれを確認する。ずれが基準値外の場合は調整をおこなう。

<基準値>

片面の場合: ± 3.0 mm 以内

両面の場合: ± 4.0 mm 以内



Adjusting the DP

1. Open the DP and loosen two adjusting screws (3) of right hinge.
2. Adjust the position of the DP.
For copy example (d): Move the DP down (⇨).
For copy example (e): Move the DP up (⇨).
Amount of change per scale: Approx. 0.5 mm

3. Tighten two adjusting screws (3).
4. Carry out the tasks in steps 7 and 8 on page 4.
Briefly remove the original mat (B) from the DP main unit (A) and then re-attach the original mat (B) by following the steps

Réglage du DP

1. Ouvrez le DP et desserrez les deux vis de réglage (3) de la charnière droite.
2. Réglez la position du DP.
Pour l'exemple de copie (d): Déplacez le DP vers le bas (⇨).
Pour l'exemple de copie (e): Déplacez le DP vers le haut (⇨).
Quantité de changement par pas: Environ 0,5 mm

3. Resserrez les deux vis de réglage (3).
4. Procédez aux opérations des étapes 7 et 8 de la page 4.
Enlevez brièvement le tapis d'original (B) de l'unité principale DP (A) et réinstallez le tapis d'original (B) en procédant de la manière suivante.

Ajuste del DP

1. Abra el DP y afloje los dos tornillos de ajuste (3) de la bisagra derecha.
2. Ajuste la posición del DP.
Para la copia de muestra (d): Mueva el DP abajo (⇨).
Para la copia de muestra (e): Mueva el DP arriba (⇨).
Cantidad de cambio de escala: Aprox. 0,5 mm

3. Apriete los tornillos de ajuste (3).
4. Realice las tareas descritas en los pasos 7 y 8 de la página 4.
Quite, brevemente, la plancha de original (B) de la unidad principal DP (A) y, a continuación, vuelva a colocar la plancha de original (B) de acuerdo al siguiente procedimiento.

Einstellen des DP

1. Den DP öffnen, und die zwei Einstellschrauben (3) des rechten Scharniers lösen.
2. Die Position des DP einstellen.
Für Kopienmuster (d): Den DP absenken (⇨).
Für Kopienmuster (e): Den DP anheben (⇨).
Änderungsbetrag pro Skalenstrich: Ca. 0,5 mm

3. Die zwei Einstellschrauben (3) wieder festziehen.
4. Die Arbeiten der Schritte 7 und 8 auf Seite 4 ausführen.
Die Originalmatte (B) kurz aus der DP-Haupteinheit (A) herausnehmen und dann die Originalmatte (B) wieder mit folgenden Schritten anbringen.

Regolazione del DP

1. Aprire il DP e allentare le due viti di regolazione (3) della cerniera destra.
2. Regolare la posizione del DP.
Per un esempio di copia (d): Muovere il DP verso il basso (⇨).
Per un esempio di copia (e): Muovere il DP verso l'alto (⇨).
Variazione graduale: Circa 0,5 mm

3. Stringere le due viti di regolazione (3).
4. Effettuare i lavori riportati nei punti 7 e 8 a pagina 4.
Rimuovere temporaneamente il coprioriginale (B) dall'unità principale del DP (A) e quindi ricollocare il coprioriginale (B) seguendo i passi.

調整 DP

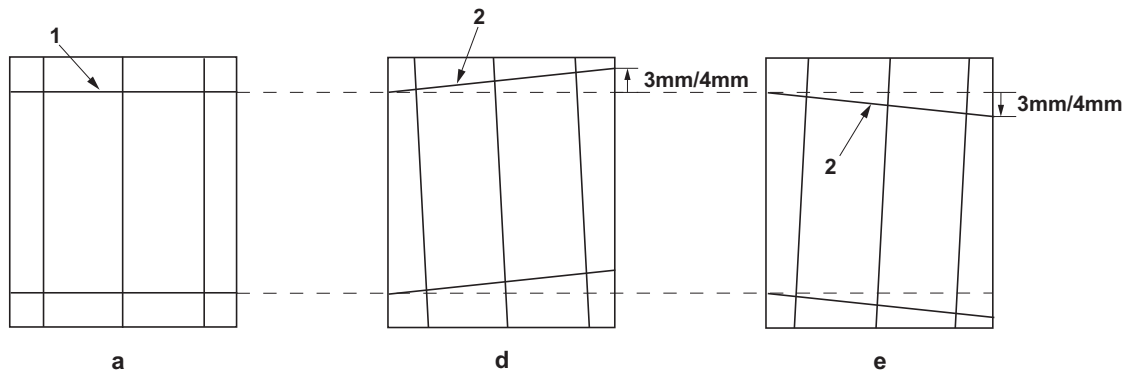
1. 打开 DP，松弛铰链右侧的 2 个调整螺丝 (3)。
2. 调整 DP 的位置。
测印件 (d) 时：将 DP 盖向下 (⇨) 移动。
测印件 (e) 时：将 DP 盖向上 (⇨) 移动。
每 1 格的移动量：约 0.5mm

3. 紧固 2 个调整螺丝 (3)。
4. 执行第 4 页中的步骤 7 和 8。
暂时从 DP (A) 主机上拆下原稿垫 (B)，然后按步骤重新安装原稿垫 (B)。

DP の調整

1. DP を開き、ヒンジ右側の調整ビス (3) 2 本をゆるめる。
2. DP の位置を調整する。
コピーサンプル (d) の場合：DP 本体を下 (⇨) へ動かす。
コピーサンプル (e) の場合：DP 本体を上 (⇨) へ動かす。
1 目盛り当たりの変化量：約 0.5mm

3. 調整ビス (3) 2 本を締める。
4. 4 ページの手順 7、8 の作業を行う。
原稿マット (B) を DP 本体 (A) から一旦、取り外し、手順に従い、原稿マット (B) を、再度貼り付けること。



5. Make a proof copy again.
6. Repeat steps 1 to 5 until line (2) of copy example shows the following the reference values.
 <Reference value>
 For simplex copying: Within ± 3.0 mm
 For duplex copying: Within ± 4.0 mm

5. Effectuez à nouveau une copie de test.
6. Répétez les étapes 1 à 5 jusqu'à ce que la ligne (2) de l'exemple de copie corresponde aux valeurs de référence suivantes.
 <Valeur de référence>
 Copie recto seul: $\pm 3,0$ mm max.
 Copie recto verso: $\pm 4,0$ mm max.

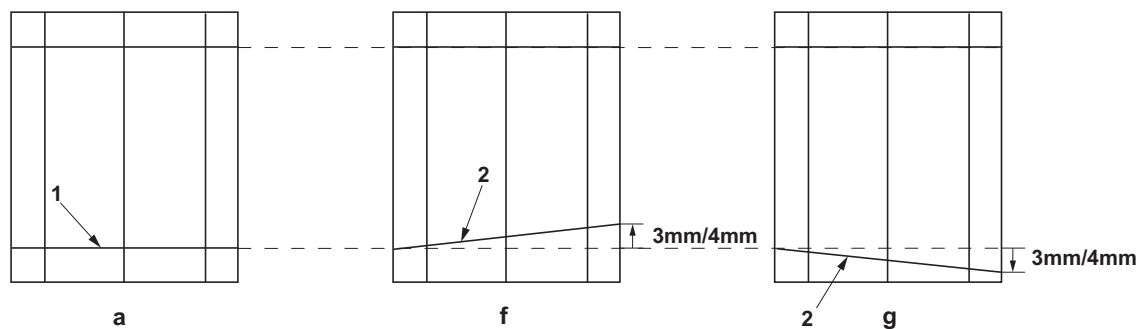
5. Haga otra copia de prueba.
6. Repita los pasos 1 a 5 hasta que la línea (2) de la copia de muestra tenga los siguientes valores de referencia.
 <Valor de referencia>
 Para copia simple: Dentro de $\pm 3,0$ mm
 Para copia duplex: Dentro de $\pm 4,0$ mm

5. Eine erneute Probekopie anfertigen.
6. Die Schritte 1 bis 5 wiederholen, bis die Linie (2) des Kopienmusters die folgenden Bezugswerte aufweist.
 <Bezugswert>
 Für Simplexkopie: Innerhalb $\pm 3,0$ mm
 Für Duplexkopie: Innerhalb $\pm 4,0$ mm

5. Eseguire di nuovo una prova di copia.
6. Ripetere i passi da 1 a 5 fino a che la linea (2) dell'esempio di copia non mostra i seguenti valori di riferimento.
 <Valore di riferimento>
 Per copia simplex: Entro $\pm 3,0$ mm
 Per copia duplex: Entro $\pm 4,0$ mm

5. 再次进行测试复印。
6. 反复操作步骤 1 ~ 5，直至测印件的线 (2) 为标准值内。
 <标准值>
 单面时： ± 3.0 mm 以内
 双面时： ± 4.0 mm 以内

5. 再度テストコピーをおこなう。
6. コピーサンプルの線 (2) が基準値内になるまで、手順 1 ~ 5 を繰り返す。
 <基準値>
 片面の場合： ± 3.0 mm 以内
 両面の場合： ± 4.0 mm 以内



Checking the angle of trailing edge

Check the gap between line (1) of original (a) and line (2) of copy example. If the gap exceeds the reference value, perform the following adjustment.

<Reference value>

For simplex copying: Within ± 3.0 mm

For duplex copying: Within ± 4.0 mm

Vérification de l'angle du bord arrière

Vérifiez l'écart entre la ligne (1) de l'original (a) et la ligne (2) de l'exemple de copie. Si l'écart est supérieur à la valeur de référence, effectuez le réglage suivant.

<Valeur de référence>

Copie recto seul: $\pm 3,0$ mm max.

Copie recto verso: $\pm 4,0$ mm max.

Verificación del ángulo del borde inferior

Verifique la separación entre la línea (1) del original (a) y la línea (2) de la copia de muestra. Si la separación supera el valor de referencia, haga el siguiente ajuste.

<Valor de referencia>

Para copia simple: Dentro de $\pm 3,0$ mm

Para copia duplex: Dentro de $\pm 4,0$ mm

Überprüfen des Winkels der Hinterkante

Die Abweichung der Linie (1) des Originals (a) und der Linie (2) des Kopienmusters prüfen. Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

<Bezugswert>

Für Simplexkopie: Innerhalb $\pm 3,0$ mm

Für Duplexkopie: Innerhalb $\pm 4,0$ mm

Controllo dell'angolo del bordo di uscita

Controllare la differenza tra la linea (1) dell'originale (a) e la linea (2) della copia di esempio. Se la differenza supera il valore di riferimento, effettuare la seguente regolazione.

<Valore di riferimento>

Per copia simplex: Entro $\pm 3,0$ mm

Per copia duplex: Entro $\pm 4,0$ mm

确认后端倾斜度

确认原稿 (a) 线 (1) 和测印件线 (2) 的偏移。如果超过标准值时，必须进行调整。

<标准值>

单面时： ± 3.0 mm 以内

双面时： ± 4.0 mm 以内

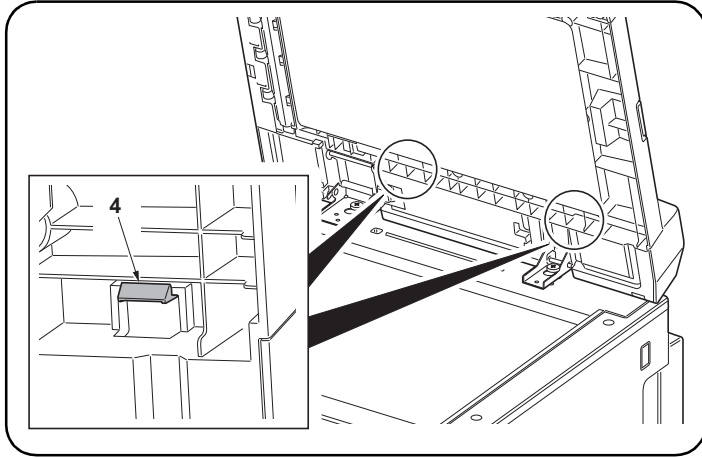
後端斜め確認

原稿 (a) の線 (1) とコピーサンプルの線 (2) のずれを確認する。ずれが基準値外の場合は調整をおこなう。

<基準値>

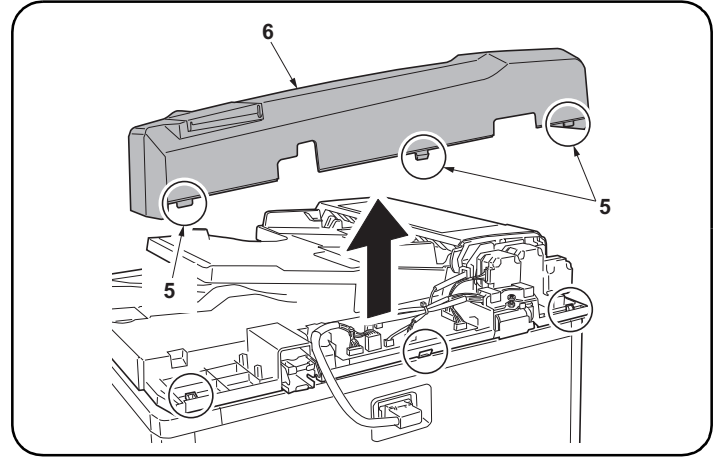
片面の場合： ± 3.0 mm 以内

両面の場合： ± 4.0 mm 以内



Adjusting the DP

1. Open the DP and release two latches (4) using a flat-head screwdriver.



2. Release three latches (5) at the rear of the DP using a flat-head screwdriver to remove the cover (6).

Réglage du DP

1. Ouvrez le DP et libérez les deux verrous (4) à l'aide d'un tournevis à tête plate.

2. Libérez les trois verrous (5) situés à l'arrière du DP en utilisant un tournevis à tête plate pour retirer le capot (6).

Ajuste del DP

1. Abra el DP y suelte los dos pestillos (4) utilizando un destornillador de punta plana.

2. Suelte los tres pestillos (5) en el lado trasero del DP utilizando un destornillador de punta plana para desmontar la cubierta (6).

Einstellen des DP

1. Den DP öffnen, und die zwei Rasten (4) mit einem Flachschaubenzieher lösen.

2. Die drei Rasten (5) auf der Rückseite des DP mit einem Flachschaubenzieher lösen, um die Abdeckung (6) zu entfernen.

Regolazione del DP

1. Aprire il DP e rilasciare i due fermi (4) utilizzando un giravite a punta piatta.

2. Rilasciare i tre fermi (5) sul retro del DP utilizzando un giravite a punta piatta per rimuovere il coperchio (6).

調整 DP

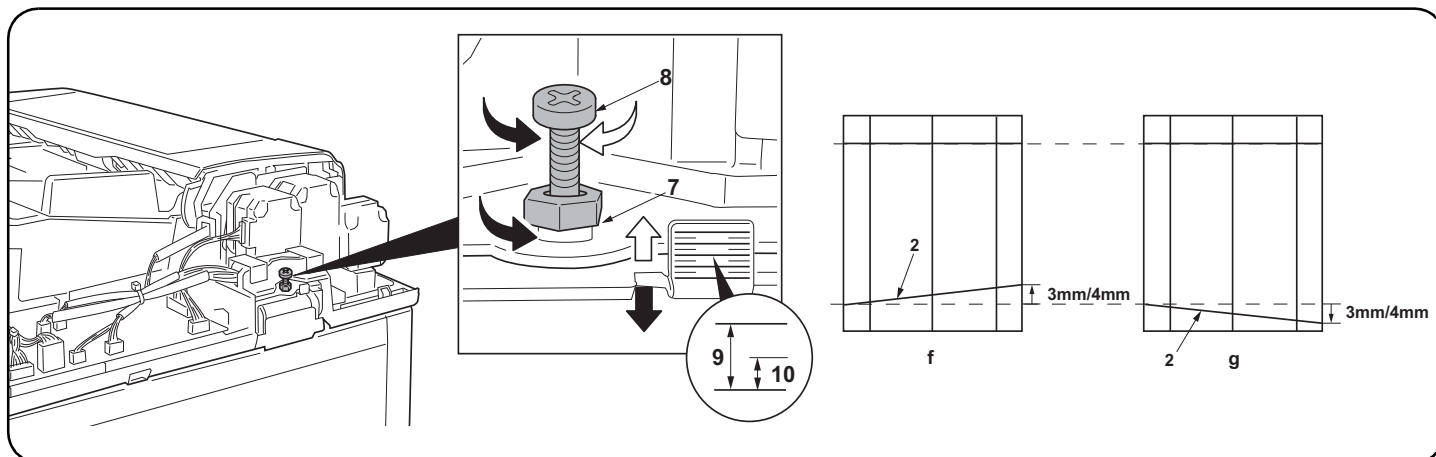
1. 打开 DP，用一字形螺丝刀等松开 2 处嵌入部 (4)。

2. 用一字形螺丝刀等松开 DP 后侧的 3 处嵌入部 (5)，并拆下盖板 (6)。

DP の調整

1. DP を開き、はめ込み (4) 2 箇所をマイナスドライバなどで解除する。

2. DP 後側のはめ込み (5) 3 箇所をマイナスドライバなどで解除し、カバー (6) を取り外す。



3. Adjust the height of DP.

Loosen the nut (7).

For copy example (f): Loosen the adjusting screw (8). (➡)

For copy example (g): Tighten the adjusting screw (8). (⇐)

Amount of change per scale: Approx. 1 mm (9)/ Approx. 0.5 mm (10)

Retighten the nut (7).

4. Refit the cover (6) removed in step 2.

5. Carry out the tasks in steps 7 and 8 on page 4.

Briefly remove the original mat (B) from the DP main unit and then re-attach the original mat (B) by following the steps

3. Réglez la hauteur du DP.

Desserrez l'écrou (7).

Pour l'exemple de copie (f): Desserrez la vis de réglage (8). (➡)

Pour l'exemple de copie (g): Serrez la vis de réglage (8). (⇐)

Quantité de changement par pas: environ 1 mm (9) / environ 0,5 mm (10)

Resserrez l'écrou (7).

4. Remettez en place le capot (6) retiré auparavant à l'étape 2.

5. Procédez aux opérations des étapes 7 et 8 de la page 4.

Enlevez brièvement le tapis d'original (B) de l'unité principale DP (A) et réinstallez le tapis d'original (B) en procédant de la manière suivante.

3. Ajuste la altura del DP.

Afloje la tuerca (7).

Para la copia de muestra (f): Afloje el tornillo de ajuste (8). (➡)

Para la copia de muestra (g): Apriete el tornillo de ajuste (8). (⇐)

Cantidad de cambio de escala: Aprox. 1 mm (9)/aprox. 0,5 mm (10)

Vuelva a apretar la tuerca (7).

4. Vuelva a colocar la cubierta (6) desmontada en el paso 2.

5. Realice las tareas descritas en los pasos 7 y 8 de la página 4.

Quite, brevemente, la plancha de original (B) de la unidad principal DP (A) y, a continuación, vuelva a colocar la plancha de original (B) de acuerdo al siguiente procedimiento.

3. Die Höhe des DP einstellen.

Lösen Sie die Mutter (7).

Für Kopienmuster (f): Lösen Sie die Einstellschraube (8). (➡)

Für Kopienmuster (g): Die Einstellschraube (8) festziehen. (⇐)

Änderungsbetrag pro Skalenstrich: ca. 1 mm (9)/ca. 0,5 mm (10)

Ziehen Sie die Mutter (7) wieder fest.

4. Die in Schritt 2 entfernte Abdeckung (6) wieder anbringen.

5. Die Arbeiten der Schritte 7 und 8 auf Seite 4 ausführen.

Die Originalmatte (B) kurz aus der DP-Haupteinheit (A) herausnehmen und dann die Originalmatte (B) wieder mit folgenden Schritten anbringen.

3. Regolazione dell'altezza del DP

Allentare il dado (7).

Per un esempio di copia (f): Allentare la vite di regolazione (8). (➡)

Per un esempio di copia (g): Stringere la vite di regolazione (8). (⇐)

Variazione graduale: circa 1 mm (9) / circa 0,5 mm (10)

Stringere di nuovo il dado (7).

4. Reinserire il coperchio (6) rimosso nel passo 2.

5. Effettuare i lavori riportati nei punti 7 e 8 a pagina 4.

Rimuovere temporaneamente il coprioriginale (B) dall'unità principale del DP (A) e quindi ricollocare il coprioriginale (B) seguendo i passi.

3. 調整 DP の高度。

松弛螺母 (7)。

測印件 (f) 時：松弛調整螺絲 (8)。 (➡)

測印件 (g) 時：緊固調整螺絲 (8)。 (⇐)

每 1 格的移動量：約 1mm (9) / 約 0.5mm (10)

將螺母 (7) 按原樣緊固好。

4. 在步驟 2 拆下的蓋板 (6) 按原樣裝好。

5. 執行第 4 頁中的步驟 7 和 8。

暫時從 DP (A) 主機上拆下原稿墊 (B)，然後按步驟重新安裝原稿墊 (B)。

3. DP の高さを調整する。

ナット (7) をゆるめる。

コピーサンプル (f) の場合：調整ビス (8) をゆるめる。 (➡)

コピーサンプル (g) の場合：調整ビス (8) を締める。 (⇐)

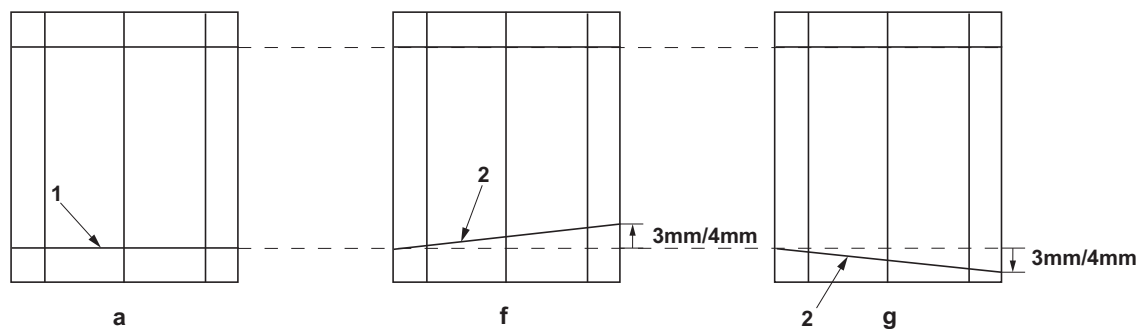
1 目盛り当たりの変化量：約 1mm (9) / 約 0.5mm (10)

ナット (7) を元通り締める。

4. 手順 2 で取り外したカバー (6) を元通り取り付け。

5. 4 ページの手順 7.8 の作業を行う。

原稿マット (B) を DP 本体 (A) から一旦、取り外し、手順に従い、原稿マット (B) を、再度貼り付けること。



6. Make a proof copy again.
7. Repeat steps 1 to 6 until line (2) of copy example shows the following the reference values.
 <Reference value>
 For simplex copying: Within ± 3.0 mm
 For duplex copying: Within ± 4.0 mm

6. Effectuez à nouveau une copie de test.
7. Répétez les étapes 1 à 6 jusqu'à ce que la ligne (2) de l'exemple de copie corresponde aux valeurs de référence suivantes.
 <Valeur de référence>
 Copie recto seul: $\pm 3,0$ mm max.
 Copie recto verso: $\pm 4,0$ mm max.

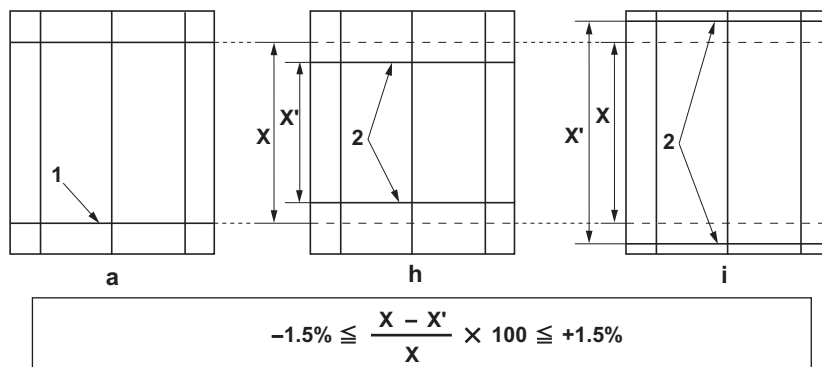
6. Haga otra copia de prueba.
7. Repita los pasos 1 a 6 hasta que la línea (2) de la copia de muestra tenga los siguientes valores de referencia.
 <Valor de referencia>
 Para copia simple: Dentro de $\pm 3,0$ mm
 Para copia duplex: Dentro de $\pm 4,0$ mm

6. Eine erneute Probekopie anfertigen.
7. Die Schritte 1 bis 6 wiederholen, bis die Linie (2) des Kopienmusters die folgenden Bezugswerte aufweist.
 <Bezugswert>
 Für Simplexkopie: Innerhalb $\pm 3,0$ mm
 Für Duplexkopie: Innerhalb $\pm 4,0$ mm

6. Eseguire di nuovo una prova di copia.
7. Ripetere i passi da 1 a 6 fino a che la linea (2) dell'esempio di copia non mostra i seguenti valori di riferimento.
 <Valore di riferimento>
 Per copia simplex: Entro $\pm 3,0$ mm
 Per copia duplex: Entro $\pm 4,0$ mm

6. 再次进行测试复印。
7. 反复操作步骤 1 ~ 6，直至测印件的线 (2) 为标准值内。
 <标准值>
 单面时： ± 3.0 mm 以内
 双面时： ± 4.0 mm 以内

6. 再度テストコピーをおこなう。
7. コピーサンプルの線 (2) が基準値内になるまで、手順 1 ~ 6 を繰り返す。
 <基準値>
 片面の場合： ± 3.0 mm 以内
 両面の場合： ± 4.0 mm 以内



Checking the magnification

Check the gap between line (1) of original (a) and line (2) of copy example. If the gap exceeds the reference value, perform the following adjustment.

<Reference value> Within $\pm 1.5\%$

If the operation panel is a 7-segment type.

1. Set the mode to Maintenance Mode U070, use the Exposure key to select "exp.1" and then adjust the upper and lower limits by magnifying the image. Press the Interrupt key and check the image in the proof copy.
For copy example (h): Increase the setting value.
For copy example (i): Decrease the setting value.
Amount of change per step: 0.2 mm

Vérification de l'agrandissement

Vérifiez l'écart entre la ligne (1) de l'original (a) et la ligne (2) de l'exemple de copie. Si l'écart est supérieur à la valeur de référence, effectuez le réglage suivant.

<Valeur de référence> $\pm 1,5\%$ max.

Si le panneau de commande est du type à 7 segments.

1. Passez en mode de maintenance U070, sélectionnez "exp. 1" à l'aide de la touche d'exposition puis ajuster les bords supérieur et inférieur en agrandissant l'image. Appuyez sur la touche d'interruption et vérifiez l'image à l'aide d'une copie de test.
Pour l'exemple de copie (h): Augmentez la valeur de réglage.
Pour l'exemple de copie (i): Diminuez la valeur de réglage.
Quantité de changement par pas: 0,2 mm

Verificación del cambio de tamaño

Verifique la separación entre la línea (1) del original (a) y la línea (2) de la copia de muestra. Si la superación supera el valor de referencia, haga el siguiente ajuste.

<Valor de referencia> Dentro de $\pm 1,5\%$

Si el tablero de controles es del tipo de 7 segmentos.

1. En Entre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U070, utilice la tecla de exposición para seleccionar "exp. 1" y, a continuación, ajuste los límites superior e inferior cambiando de tamaño la imagen. Presione la tecla de interrupción y compruebe la imagen en la copia de prueba.
Para la copia de muestra (h): Aumente el valor de configuración.
Para la copia de muestra (i): Reduzca el valor de configuración.
Cantidad de cambio por paso: 0,2 mm

Überprüfen der Vergrößerung

Die Abweichung der Linie (1) des Originals (a) und der Linie (2) des Kopienmusters prüfen. Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

<Bezugswert> Innerhalb $\pm 1,5\%$

Wenn es sich um eine 7-Segment-Bedienungstafel handelt.

1. Den Modus auf Wartungsmodus U070 setzen, mit der Belichtungstaste "exp. 1" wählen und dann die obere und untere Grenze durch Vergrößern des Bilds einstellen. Die Unterbrechungstaste drücken und das Bild an der Probekopie überprüfen.
Für Kopienmuster (h): Den Einstellwert erhöhen.
Für Kopienmuster (i): Den Einstellwert erniedrigen.
Änderungsbetrag pro Stufe: 0,2 mm

Controllo dell'ingrandimento

Controllare la differenza tra la linea (1) dell'originale (a) e la linea (2) della copia di esempio. Se la differenza supera il valore di riferimento, effettuare la seguente regolazione.

<Valore di riferimento> Entro $\pm 1,5\%$

Se il tipo di pannello operativo è quello a 7 segmenti.

1. Entrare in modalità manutenzione U070, usare il tasto di esposizione per selezionare "exp.1" e quindi regolare i limiti superiore e inferiore tramite l'ingrandimento immagine. Premere il tasto di interruzione e controllare l'immagine nella copia di prova.
Per un esempio di copia (h): Aumentare il valore dell'impostazione.
Per un esempio di copia (i): Diminuire il valore dell'impostazione.
Variazione graduale: 0,2 mm

确认等倍值

确认原稿 (a) 线 (1) 和测印件线 (2) 的偏移。如果超过标准值时，必须进行调整。

<标准值> $\pm 1.5\%$ 以内

如果操作面板采用七段显示屏

1. 设定为 U070 维护模式，按浓淡控制键选择“exp.1”，然后放大图像，调整上、下限值。按插印键，确认测试复印的图像。
测印件 (h) 时：提高设定值。
测印件 (i) 时：降低设定值。
1 级的移动量：约 0.2mm

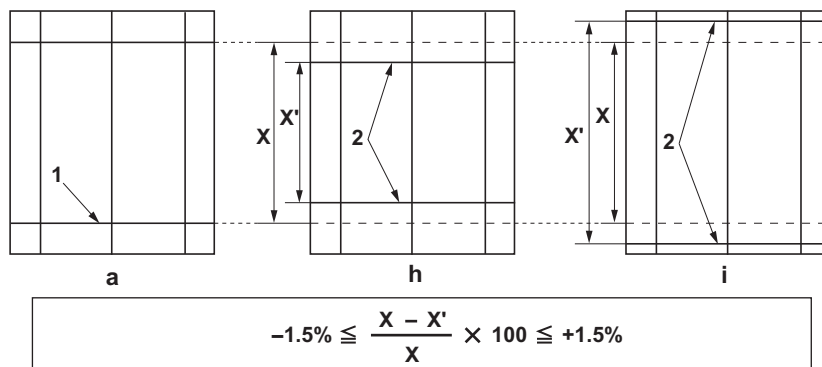
DP 等倍度調整

原稿 (a) の線 (1) とコピーサンプルの線 (2) のずれを確認する。ずれが基準値外の場合は調整をおこなう。

<基準値> $\pm 1.5\%$ 以内

操作パネルが7 seg タイプの場合

1. メンテナンスモード U070 をセットし、濃度調整キーを“exp.1”を選択し画像倍率により上下限調整を行う。割込みキーを押し、テストコピーにて画像確認をする。
コピーサンプル (h) の場合：設定値を上げる
コピーサンプル (i) の場合：設定値を下げる
1 ステップの変化量：約 0.2mm



If the operation panel is an LCD type.

1. Set the mode to Maintenance Mode U070, select "CONVEY SPEED1" and use image magnification and paper cassette level selection to adjust the upper and lower limits. Then press the Interrupt key and check the image in the proof copy
For copy example (h): Increase the setting value.
For copy example (i): Decrease the setting value.
Amount of change per step: 0.2 mm

2. Make a proof copy again.

3. Repeat steps 1 to 2 until line (2) of copy example shows the following the reference values.
<Reference value> Within $\pm 1.5\%$

Se il tipo di pannello operativo è quello LCD.

1. Passez en mode de maintenance U070, sélectionnez "CONVEY SPEED 1" puis ajustez les bords supérieur et inférieur à l'aide des fonctions d'agrandissement de l'image et de sélection du niveau de la cassette à papier. Appuyez sur la touche d'interruption et vérifiez l'image à l'aide d'une copie de test.
Pour l'exemple de copie (h): Augmentez la valeur de réglage.
Pour l'exemple de copie (i): Diminuez la valeur de réglage.
Quantité de changement par pas: 0,2 mm

2. Effectuez à nouveau une copie de test.

3. Répétez les étapes 1 à 2 jusqu'à ce que la ligne (2) de l'exemple de copie corresponde aux valeurs de référence suivantes.
<Valeur de référence> $\pm 1,5\%$ max.

Si el tablero de controles es del tipo LCD.

1. Entre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U070, seleccione "CONVEY SPEED1", y utilice cambio de tamaño de la imagen y selección del nivel de casete de papel para ajustar los límites superior e inferior. A continuación, presione la tecla de interrupción y compruebe la imagen en la copia de prueba.
Para la copia de muestra (h): Aumente el valor de configuración.
Para la copia de muestra (i): Reduzca el valor de configuración. Cantidad de cambio por paso: 0,2 mm

2. Haga otra copia de prueba.

3. Repita los pasos 1 a 2 hasta que la línea (2) de la copia de muestra tenga los siguientes valores de referencia.
<Valor de referencia> Dentro de $\pm 1,5\%$

Wenn es sich um eine LCD-Bedienungstafel handelt.

1. Den Modus auf Wartungsmodus U070 setzen, "CONVEY SPEED1" wählen und dann die obere und untere Grenze mittels Bildvergrößerung und Wahl der Papierkassettenstufe einstellen. Dann die Unterbrechungstaste drücken und das Bild an der Probekopie überprüfen.
Für Kopienmuster (h): Den Einstellwert erhöhen.
Für Kopienmuster (i): Den Einstellwert erniedrigen.
Änderungsbetrag pro Stufe: 0,2 mm

2. Eine erneute Probekopie anfertigen.

3. Die Schritte 1 bis 2 wiederholen, bis die Linie (2) des Kopienmusters die folgenden Bezugswerte aufweist.
<Bezugswert> Innerhalb $\pm 1,5\%$

Se il tipo di pannello operativo è quello LCD.

1. Entrare in modalità manutenzione U070, selezionare "CONVEY SPEED1" e usare l'ingrandimento immagine e la selezione del livello del cassetto carta per regolare i limiti superiore e inferiore. Quindi premere il tasto di interruzione e controllare l'immagine nella copia di prova.
Per un esempio di copia (h): Aumentare il valore dell'impostazione.
Per un esempio di copia (i): Diminuire il valore dell'impostazione.
Variazione graduale: 0,2 mm

2. Eseguire di nuovo una prova di copia.

3. Ripetere i passi da 1 a 2 fino a che la linea (2) dell'esempio di copia non mostra i seguenti valori di riferimento.
<Valore di riferimento> Entro $\pm 1,5\%$

如果操作面板采用 LCD 屏

1. 设定为 U070 维护模式，选择“CONVEY SPEED1”并通过选择图像放大倍率及纸盒来调整上、下限。然后按插键，确认测试复印的图像。
测印件 (h) 时：提高设定值。
测印件 (i) 时：降低设定值。
1 级的移动量：约 0.2mm

2. 再次进行测试复印。

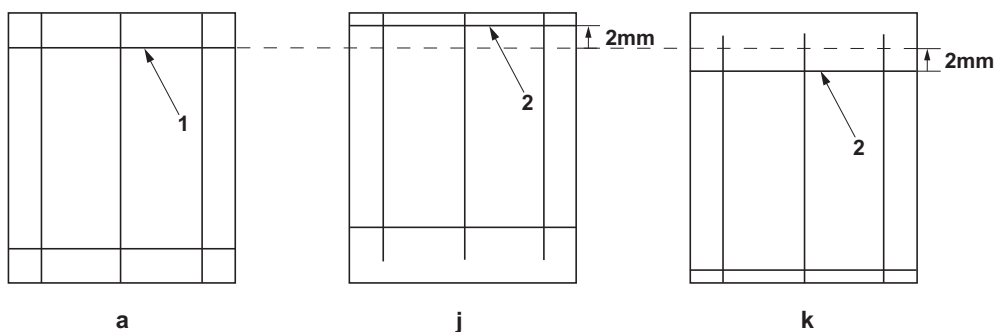
3. 反复操作步骤 1 ~ 2，直至测印件的线 (2) 为标准值内。
<标准值> $\pm 1.5\%$ 以内

操作パネルが LCD タイプの場合

1. メンテナンスモード U070 をセットし、“CONVEY SPEED1”を選択し画像倍率と用紙段選択により、上下限調整を行い割込みキーを押し、テストコピーにて画像確認をする
コピーサンプル (h) の場合：設定値を上げる
コピーサンプル (i) の場合：設定値を下げる
1 ステップの変化量：約 0.2mm

2. 再度テストコピーをおこなう。

3. コピーサンプルの線 (2) が基準値内になるまで調整手順 1 ~ 2 を繰り返す。
<基準値> $\pm 1.5\%$ 以内



Checking the leading edge timing

Check the gap between line (1) of original (a) and line (2) of copy example. If the gap exceeds the reference value, perform the following adjustment.

<Reference value>

For simplex copying: Within ± 2.0 mm

For duplex copying: Within ± 2.0 mm

If the operation panel is a 7-segment type.

1. Set the mode to Maintenance Mode U071, use the Exposure key to select "exp.1" and then adjust the upper and lower limits by magnifying the image. Press the Interrupt key and check the image in the proof copy.

For copy example (j): Decrease the setting value.

For copy example (k): Increase the setting value

Amount of change per step: 0.2 mm

Vérification de la synchronisation du bord avant

Vérifiez l'écart entre la ligne (1) de l'original (a) et la ligne (2) de l'exemple de copie. Si l'écart est supérieur à la valeur de référence, effectuez le réglage suivant.

<Valeur de référence>

Copie recto seul: $\pm 2,0$ mm max.

Copie recto verso: $\pm 2,0$ mm max.

Si le panneau de commande est du type à 7 segments.

1. Passez en mode de maintenance U071, sélectionnez "exp. 1" à l'aide de la touche d'exposition puis ajuster les bords supérieur et inférieur en agrandissant l'image. Appuyez sur la touche d'interruption et vérifiez l'image à l'aide d'une copie de test.

Pour l'exemple de copie (j): Diminuez la valeur de réglage.

Pour l'exemple de copie (k): Augmentez la valeur de réglage.

Quantité de changement par pas: 0,2 mm

Cambio de la sincronización de borde superior

Verifique la separación entre la línea (1) del original (a) y la línea (2) de la copia de muestra. Si la superación supera el valor de referencia, haga el siguiente ajuste.

<Valor de referencia>

Para copia simple: Dentro de $\pm 2,0$ mm

Para copia duplex: Dentro de $\pm 2,0$ mm

Si el tablero de controles es del tipo de 7 segmentos.

1. EnEntre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U071, utilice la tecla de exposición para seleccionar "exp. 1" y, a continuación, ajuste los límites superior e inferior cambiando de tamaño la imagen. Presione la tecla de interrupción y compruebe la imagen en la copia de prueba.

Para la copia de muestra (j): Reduzca el valor de configuración.

Para la copia de muestra (k): Aumente el valor de configuración.

Cantidad de cambio por paso: 0,2 mm

Überprüfen des Vorderkanten-Timings

Die Abweichung der Linie (1) des Originals (a) und der Linie (2) des Kopienmusters prüfen. Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

<Bezugswert>

Für Simplexkopie: Innerhalb $\pm 2,0$ mm

Für Duplexkopie: Innerhalb $\pm 2,0$ mm

Wenn es sich um eine 7-Segment-Bedienungstafel handelt.

1. Den Modus auf Wartungsmodus U071 setzen, mit der Belichtungstaste "exp. 1" wählen und dann die obere und untere Grenze durch Vergrößern des Bilds einstellen. Die Unterbrechungstaste drücken und das Bild an der Probekopie überprüfen.

Für Kopienmuster (j): Den Einstellwert erniedrigen.

Für Kopienmuster (k): Den Einstellwert erhöhen.

Änderungsbetrag pro Stufe: 0,2 mm

Controllo della sincronizzazione del bordo principale

Controllare la differenza tra la linea (1) dell'originale (a) e la linea (2) della copia di esempio. Se la differenza supera il valore di riferimento, effettuare la seguente regolazione.

<Valore di riferimento>

Per copia simplex: Entro $\pm 2,0$ mm

Per copia duplex: Entro $\pm 2,0$ mm

Se il tipo di pannello operativo è quello a 7 segmenti.

1. Entrare in modalità manutenzione U071, usare il tasto di esposizione per selezionare "exp.1" e quindi regolare i limiti superiore e inferiore tramite l'ingrandimento immagine. Premere il tasto di interruzione e controllare l'immagine nella copia di prova.

Per un esempio di copia (j): Diminuire il valore d'impostazione.

Per un esempio di copia (k): Aumentare il valore d'impostazione.

Variazione graduale: 0,2 mm

确认前端定时调整

确认原稿 (a) 线 (1) 和测印件线 (2) 的偏移。如果超过标准值时, 必须进行调整。

<标准值>

单面时: ± 2.0 mm 以内

双面时: ± 2.0 mm 以内

如果操作面板采用七段显示屏

1. 设定为 U071 维护模式, 按浓度控制键选择 "exp. 1", 然后放大图像, 调整上、下限值。按插印键, 确认测试复印的图像。

测印件 (i) 时: 降低设定值。

测印件 (k) 时: 提高设定值。

1 级的移动量: 约 0.2mm

DP 先端タイミング

原稿 (a) の線 (1) とコピーサンプルの線 (2) のずれを確認する。ずれが基準値外の場合は調整をおこなう。

<基準値>

片面の場合: ± 2.0 mm 以内

両面の場合: ± 2.0 mm 以内

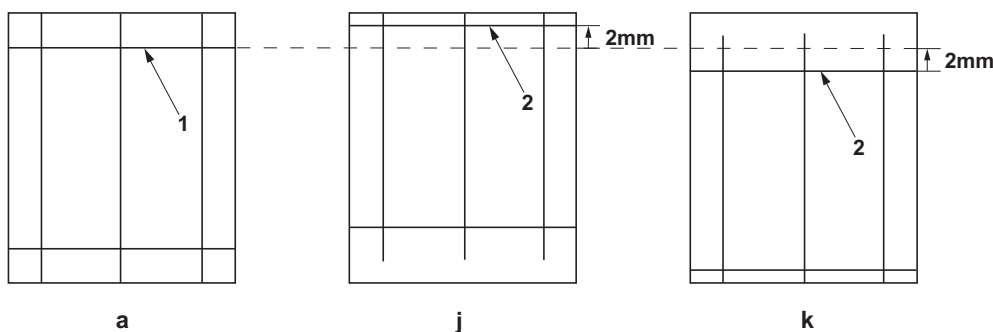
操作パネルが7 seg タイプの場合

1. メンテナンスモード U071 をセットし、濃度調整キーを "exp. 1" を選択し、倍率調整キーにより上下限調整を行う。割込みキーを押し、テストコピーにて画像確認をする。

コピーサンプル (j) の場合: 設定値を下げる

コピーサンプル (k) の場合: 設定値を上げる

1 ステップの変化量: 約 0.2mm



If the operation panel is an LCD type.

1. Set the mode to Maintenance Mode U071, select "LEAD1" and use image magnification and paper cassette level selection to adjust the upper and lower limits. Then press the Interrupt key and check the image in the proof copy
For copy example (j): Decrease the setting value.
For copy example (k): Increase the setting value.
Amount of change per step: 0.2 mm

2. Make a proof copy again.
3. Repeat steps 1 to 2 until line (2) of copy example shows the following the reference values.
<Reference value>
For simplex copying: Within ± 2.0 mm
For duplex copying: Within ± 2.0 mm

Se il tipo di pannello operativo è quello LCD.

1. Passez en mode de maintenance U071, sélectionnez "LEAD1" puis ajustez les bords supérieur et inférieur à l'aide des fonctions d'agrandissement de l'image et de sélection du niveau de la cassette à papier. Appuyez sur la touche d'interruption et vérifiez l'image à l'aide d'une copie de test..
Pour l'exemple de copie (j): Diminuez la valeur de réglage.
Pour l'exemple de copie (k): Augmentez la valeur de réglage.
Quantité de changement par pas: 0,2 mm

2. Effectuez à nouveau une copie de test.
3. Répétez les étapes 1 à 2 jusqu'à ce que la ligne (2) de l'exemple de copie corresponde aux valeurs de référence suivantes.
<Valeur de référence>
Copie recto seul: $\pm 2,0$ mm max.
Copie recto verso: $\pm 2,0$ mm max.

Si el tablero de controles es del tipo LCD

1. Entre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U071, seleccione "LEAD1", y utilice cambio de tamaño de la imagen y selección del nivel de casete de papel para ajustar los límites superior e inferior. A continuación, presione la tecla de interrupción y compruebe la imagen en la copia de prueba.
Para la copia de muestra (j): Reduzca el valor de configuración.
Para la copia de muestra (k): Aumente el valor de configuración.
Cantidad de cambio por paso: 0,2 mm

2. Haga otra copia de prueba.
3. Repita los pasos 1 a 2 hasta que la línea (2) de la copia de muestra tenga los siguientes valores de referencia.
<Valor de referencia>
Para copia simple: Dentro de $\pm 2,0$ mm
Para copia duplex: Dentro de $\pm 2,0$ mm

Wenn es sich um eine LCD-Bedienungstafel handelt.

1. Den Modus auf Wartungsmodus U071 setzen, "LEAD 1" wählen und dann die obere und untere Grenze mittels Bildvergrößerung und Wahl der Papierkassettenstufe einstellen. Dann die Unterbrechungstaste drücken und das Bild an der Probekopie überprüfen.
Für Kopienmuster (j): Den Einstellwert erniedrigen.
Für Kopienmuster (k): Den Einstellwert erhöhen.
Änderungsbetrag pro Stufe: 0,2 mm

2. Eine erneute Probekopie anfertigen.
3. Die Schritte 1 bis 2 wiederholen, bis die Linie (2) des Kopienmusters die folgenden Bezugswerte aufweist.
<Bezugswert>
Für Simplexkopie: Innerhalb $\pm 2,0$ mm
Für Duplexkopie: Innerhalb $\pm 2,0$ mm

Se il tipo di pannello operativo è quello LCD.

1. Entrare in modalità manutenzione U071, selezionare "LEAD1" e usare l'ingrandimento immagine e la selezione del livello del cassetto carta per regolare i limiti superiore e inferiore. Quindi premere il tasto di interruzione e controllare l'immagine nella copia di prova.
Per un esempio di copia (j): Diminuire il valore d'impostazione.
Per un esempio di copia (k): Aumentare il valore d'impostazione.
Variazione graduale: 0,2 mm

2. Eseguire di nuovo una prova di copia.
3. Ripetere i passi da 1 a 2 fino a che la linea (2) dell'esempio di copia non mostra i seguenti valori di riferimento.
<Valore di riferimento>
Per copia simplex: Entro $\pm 2,0$ mm
Per copia duplex: Entro $\pm 2,0$ mm

如果操作面板采用 LCD 屏

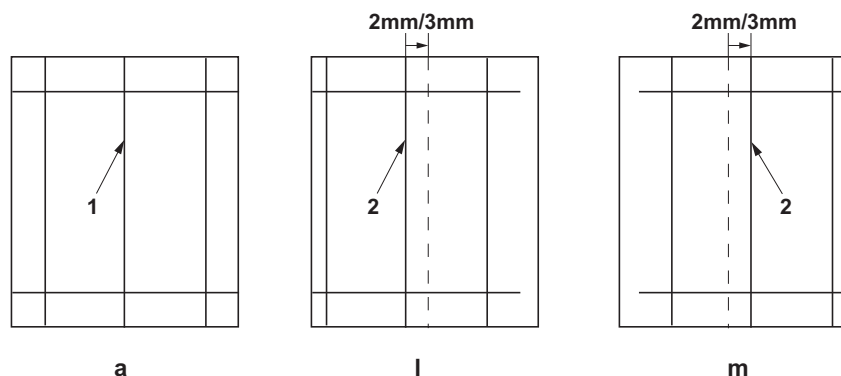
1. 设定为 U071 维护模式，选择“LEAD1”并通过选择图像放大倍率及纸盒来调整上、下限。然后按插印键，确认测试复印的图像。
测印件 (j) 时：降低设定值。
测印件 (k) 时：提高设定值。
1 级的移动量：约 0.2mm

2. 再次进行测试复印。
3. 反复操作步骤 1 ~ 2，直至测印件的线 (2) 为标准值内。
<标准值>
单面时： ± 2.0 mm 以内
双面时： ± 2.0 mm 以内

操作パネルが LCD タイプの場合

1. メンテナンスモード U071 をセットし、“LEAD1”を選択し画像倍率と用紙段選択により、上下限調整を行い割込みキーを押し、テストコピーにて画像確認をする
コピーサンプル (j) の場合：設定値を下げる
コピーサンプル (k) の場合：設定値を上げる
1 ステップの変化量：約 0.2mm

2. 再度テストコピーをおこなう。
3. コピーサンプルの線 (2) が基準値内になるまで、調整手順 1 ~ 2 を繰り返す。
<基準値>
片面の場合： ± 2.0 mm 以内
両面の場合： ± 2.0 mm 以内



Checking the center line

Check the gap between line (1) of original (a) and line (2) of copy example. If the gap exceeds the reference value, perform the following adjustment.

<Reference value>

For simplex copying: Within ± 2.0 mm

For duplex copying: Within ± 3.0 mm

If the operation panel is a 7-segment type.

1. Set the mode to Maintenance Mode U072, use the Exposure key to select "exp.1" and then adjust the upper and lower limits by magnifying the image. Press the Interrupt key and check the image in the proof copy

For copy example (l): Increase the setting value.

For copy example (m): Decrease the setting value.

Amount of change per step: 0.15mm

Vérification de la ligne médiane

Vérifiez l'écart entre la ligne (1) de l'original (a) et la ligne (2) de l'exemple de copie. Si l'écart est supérieur à la valeur de référence, effectuez le réglage suivant.

<Valeur de référence>

Copie recto seul: $\pm 2,0$ mm max.

Copie recto verso: $\pm 3,0$ mm max.

Si le panneau de commande est du type à 7 segments.

1. Passez en mode de maintenance U072, sélectionnez "exp. 1" à l'aide de la touche d'exposition puis ajuster les bords supérieur et inférieur en agrandissant l'image. Appuyez sur la touche d'interruption et vérifiez l'image à l'aide d'une copie de test.

Pour l'exemple de copie (l): Augmentez la valeur de réglage.

Pour l'exemple de copie (m): Diminuez la valeur de réglage.

Quantité de changement par pas: 0,15 mm

Verificación de la línea central

Verifique la separación entre la línea (1) del original (a) y la línea (2) de la copia de muestra. Si la superación supera el valor de referencia, haga el siguiente ajuste.

<Valor de referencia>

Para copia simple: Dentro de $\pm 2,0$ mm

Para copia duplex: Dentro de $\pm 3,0$ mm

Si el tablero de controles es del tipo de 7 segmentos.

1. EnEntre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U072, utilice la tecla de exposición para seleccionar "exp. 1" y, a continuación, ajuste los límites superior e inferior cambiando de tamaño la imagen. Presione la tecla de interrupción y compruebe la imagen en la copia de prueba.

Para la copia de muestra (l): Aumente el valor de configuración.

Para la copia de muestra (m): Reduzca el valor de configuración.

Cantidad de cambio por paso: 0,15 mm

Überprüfen der Mittellinie

Die Abweichung der Linie (1) des Originals (a) und der Linie (2) des Kopienmusters prüfen. Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

<Bezugswert>

Für Simplexkopie: Innerhalb $\pm 2,0$ mm

Für Duplexkopie: Innerhalb $\pm 3,0$ mm

Wenn es sich um eine 7-Segment-Bedienungstafel handelt.

1. Den Modus auf Wartungsmodus U072 setzen, mit der Belichtungstaste "exp. 1" wählen und dann die obere und untere Grenze durch Vergrößern des Bilds einstellen. Die Unterbrechungstaste drücken und das Bild an der Probekopie überprüfen.

Für Kopienmuster (l): Den Einstellwert erhöhen.

Für Kopienmuster (m): Den Einstellwert erniedrigen.

Änderungsbetrag pro Stufe: 0,15 mm

Controllo della linea centrale

Controllare la differenza tra la linea (1) dell'originale (a) e la linea (2) della copia di esempio. Se la differenza supera il valore di riferimento, effettuare la seguente regolazione.

<Valore di riferimento>

Per copia simplex: Entro $\pm 2,0$ mm

Per copia duplex: Entro $\pm 3,0$ mm

Se il tipo di pannello operativo è quello a 7 segmenti.

1. Entrare in modalità manutenzione U072, usare il tasto di esposizione per selezionare "exp.1" e quindi regolare i limiti superiore e inferiore tramite l'ingrandimento immagine. Premere il tasto di interruzione e controllare l'immagine nella copia di prova.

Per un esempio di copia (l): Aumentare il valore dell'impostazione.

Per un esempio di copia (m): Diminuire il valore dell'impostazione.

Variazione graduale: 0,15 mm

确认中心线

确认原稿 (a) 线 (1) 和测印件线 (2) 的偏移。如果超过标准值时, 必须进行调整。

<标准值>

单面时: ± 2.0 mm 以内

双面时: ± 3.0 mm 以内

如果操作面板采用七段显示屏

1. 设定为 U072 维护模式, 按浓淡控制键选择 "exp.1", 然后放大图像, 调整上、下限值。按插印键, 确认测试复印的图像。

测印件 (l) 时: 提高设定值。

测印件 (m) 时: 降低设定值。

1 级的移动量: 0.15mm

DP センターライン調整

原稿 (a) のセンターライン (1) とコピーサンプルのセンターライン (2) のずれを確認する。ずれが基準値外の場合は調整をおこなう。

<基準値>

片面の場合: ± 2.0 mm 以内

両面の場合: ± 3.0 mm 以内

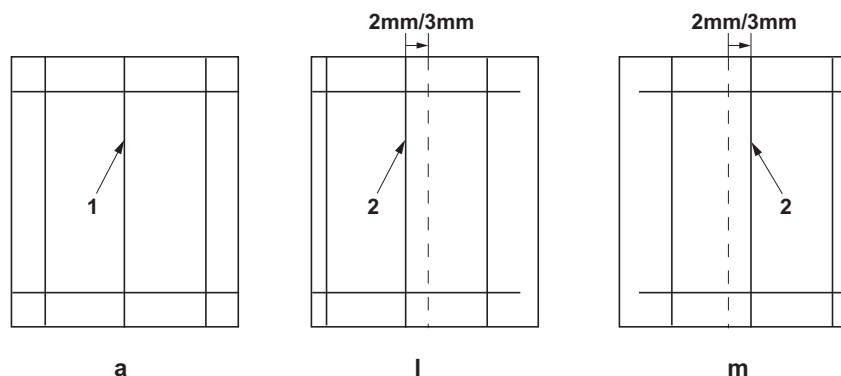
操作パネルが7 seg タイプの場合

1. メンテナンスモード U072 をセットし、濃度調整キーを "exp1" を選択し、倍率調整により上下限調整を行う。割込みキーを押し、テストコピーにて画像確認をする。

コピーサンプル (l) の場合: 設定値を上げる

コピーサンプル (m) の場合: 設定値を下げる

1 ステップの変化量: 約 0.15mm



If the operation panel is an LCD type.

1. Set the mode to Maintenance Mode U072, select "1sided" and use image magnification and paper cassette level selection to adjust the upper and lower limits. Then press the Interrupt key and check the image in the proof copy
For copy example (l): Increase the setting value.
For copy example (m): Decrease the setting value.
Amount of change per step: 0.15 mm

2. Make a proof copy again.

3. Repeat steps 1 to 2 until line (2) of copy example shows the following the reference values.

<Reference value>

For simplex copying: Within ± 2.0 mm

For duplex copying: Within ± 3.0 mm

Se il tipo di pannello operativo è quello LCD.

1. Passez en mode de maintenance U072, sélectionnez "1sided" puis ajustez les bords supérieur et inférieur à l'aide des fonctions d'agrandissement de l'image et de sélection du niveau de la cassette à papier. Appuyez sur la touche d'interruption et vérifiez l'image à l'aide d'une copie de test.
Pour l'exemple de copie (l): Augmentez la valeur de réglage.
Pour l'exemple de copie (m): Diminuez la valeur de réglage.
Quantité de changement par pas: 0,15 mm

2. Effectuez à nouveau une copie de test.

3. Répétez les étapes 1 à 2 jusqu'à ce que la ligne (2) de l'exemple de copie corresponde aux valeurs de référence suivantes.

<Valeur de référence>

Copie recto seul: $\pm 2,0$ mm max.

Copie recto verso: $\pm 3,0$ mm max.

Si el tablero de controles es del tipo LCD.

1. Entre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U072, seleccione "1sided", y utilice cambio de tamaño de la imagen y selección del nivel de casete de papel para ajustar los límites superior e inferior. A continuación, presione la tecla de interrupción y compruebe la imagen en la copia de prueba.
Para la copia de muestra (l): Aumente el valor de configuración.
Para la copia de muestra (m): Reduzca el valor de configuración. Cantidad de cambio por paso: 0,15 mm

2. Haga otra copia de prueba.

3. Repita los pasos 1 a 2 hasta que la línea (2) de la copia de muestra tenga los siguientes valores de referencia.

<Valor de referencia>

Para copia simple: Dentro de $\pm 2,0$ mm

Para copia duplex: Dentro de $\pm 3,0$ mm

Wenn es sich um eine LCD-Bedienungstafel handelt.

1. Den Modus auf Wartungsmodus U072 setzen, "1sided" wählen und dann die obere und untere Grenze mittels Bildvergrößerung und Wahl der Papierkassettenstufe einstellen. Dann die Unterbrechungstaste drücken und das Bild an der Probekopie überprüfen.
Für Kopienmuster (l): Den Einstellwert erhöhen.
Für Kopienmuster (m): Den Einstellwert erniedrigen.
Änderungsbetrag pro Stufe: 0,15 mm

2. Eine erneute Probekopie anfertigen.

3. Die Schritte 1 bis 2 wiederholen, bis die Linie (2) des Kopienmusters die folgenden Bezugswerte aufweist.

<Bezugswert>

Für Simplexkopie: Innerhalb $\pm 2,0$ mm

Für Duplexkopie: Innerhalb $\pm 3,0$ mm

Se il tipo di pannello operativo è quello LCD.

1. Entrare in modalità manutenzione U072, selezionare "1sided" e usare l'ingrandimento immagine e la selezione del livello del cassetto carta per regolare i limiti superiore e inferiore. Quindi premere il tasto di interruzione e controllare l'immagine nella copia di prova.
Per un esempio di copia (l): Aumentare il valore dell'impostazione.
Per un esempio di copia (m): Diminuire il valore dell'impostazione.
Variazione graduale: 0,15 mm

2. Eseguire di nuovo una prova di copia.

3. Ripetere i passi da 1 a 2 fino a che la linea (2) dell'esempio di copia non mostra i seguenti valori di riferimento.

<Valore di riferimento>

Per copia simplex: Entro $\pm 2,0$ mm

Per copia duplex: Entro $\pm 3,0$ mm

如果操作面板采用 LCD 屏

1. 设定为 U072 维护模式，选择 "1sided" 并通过选择图像放大倍率及纸盒来调整上、下限。然后按插印键，确认测试复印的图像。
测印件 (l) 时：提高设定值。
测印件 (m) 时：降低设定值。
1 级的移动量：约 0.15mm

2. 再次进行测试复印。

3. 反复操作步骤 1 ~ 2，直至测印件的线 (2) 为标准值内。

<标准值>

单面时： ± 2.0 mm 以内

双面时： ± 3.0 mm 以内

操作パネルが LCD タイプの場合

1. メンテナンスモード U072 をセットし、"1sided" を選択し画像倍率と用紙段選択により、上下限調整を行う。割込みキーを押してテストコピーにて画像確認をする。
コピーサンプル (l) の場合：設定値を上げる
コピーサンプル (m) の場合：設定値を下げる
1 ステップの変化量：約 0.15mm

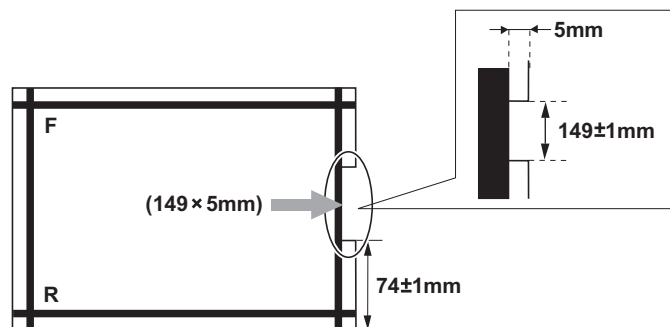
2. 再度テストコピーをおこなう。

3. コピーサンプルのセンターライン (2) が基準値内になるまで、手順 1 ~ 2 を繰り返す。

<基準値>

片面の場合： ± 2.0 mm 以内

両面の場合： ± 3.0 mm 以内



Automatic adjustment using the original for adjustment

Before performing this adjustment, be sure to adjust the angle of leading edge and the angle of trailing edge (see pages 8 and 11).

1. Set the mode to Maintenance Mode U076 and cut off the trailing edge of the adjustment original. Then place it on the DP main unit original table with the side on which F and R are printed facing upwards.
2. Press the Start button to feed in the loaded original. The magnification, leading edge timing and center line are then automatically adjusted.
3. If the results are OK and the operation panel is a 7-segment type: The following is displayed. (Item 1: Gd, Item 2: 0, Item 3: 0, Item 4: 0)
Adjustments of the DP magnification, DP leading edge timing and DP center line are performed automatically. If the operation panel is an LCD type: (Numerical values for CONVEY SPEED, LEAD EDGE ADJ and DP CENTER are displayed.)
4. If the results are NG and the operation panel is a 7-segment type: (nG1, nG2, nG3) and Item 1 are displayed. If the operation panel is an LCD type: (DATA, NG1, NG2) is displayed. (For details, see the service manual).

Réglage automatique en utilisant l'original pour effectuer le réglage

Avant d'effectuer ce réglage, veiller à régler l'angle du bord avant et l'angle du bord arrière (se reporter aux pages 8 et 11).

1. Passez en mode de maintenance U076 et coupez le bord queue de l'original de réglage. Placez-le ensuite sur le plateau de l'unité principal DP, le côté avec les lettres F et R imprimées regardant vers le haut.
2. Appuyez sur la touche de démarrage pour charger l'original. Le réglage de l'agrandissement, de la synchronisation du bord tête et de l'axe, s'effectue automatiquement.
3. Si les résultats obtenus sont satisfaisants et si le panneau de commande est du type à 7 segments : l'affichage doit être le suivant. (Point 1 : Gd, Point 2 : 0, Point 3 : 0, Point 4 : 0). Si le panneau de commande est du type LCD : (l'affichage est celui des valeurs numériques de CONVEY SPEED, LEAD EDGE ADJ et DP CENTER.)
4. Si les résultats obtenus sont défectueux et si le panneau de commande est du type à 7 segments : l'affichage doit être le suivant (nG1, nG2, nG3) et Point 1. Si le panneau de commande est du type LCD : l'affichage est (DATA, NG1, NG2). (Pour plus de détails, reportez-vous au manuel de service).

Ajuste automático utilizando el original para el ajuste

Antes de hacer el ajuste, asegúrese de ajustar el ángulo del borde superior y el ángulo del borde inferior (vea las páginas 8 y 11).

1. Entre en el modo de mantenimiento e ingrese en el ítem de mantenimiento U076 y corte el borde inferior del original para el ajuste. Después, colóquelo en la cubierta de originales de la unidad principal DP, con el lado donde F y R están impresos hacia arriba.
2. Presione la tecla de inicio para alimentar el original cargado. Entonces, el cambio de tamaño, sincronización del borde superior y la línea central se ajustan automáticamente.
3. Si el resultado es correcto y el tablero de controles es del tipo de 7 segmentos: Aparecerá lo siguiente: (Ítem 1: Gd, Ítem 2: 0, Ítem 3: 0, Ítem 4: 0). Si el tablero de controles es del tipo LCD: (Se muestran los valores numéricos para CONVEY SPEED, LEAD EDGE ADJ y DP CENTER).
4. Si el resultado no es correcto y el tablero de controles es del tipo de 7 segmentos: se muestra (nG1, nG2, nG3) e ítem 1. Si el tablero de controles es del tipo LCD: se muestra (DATA, NG1, NG2). (Para más detalles, vea el manual de servicio).

Automatische Einstellung mithilfe des Originals

Bevor diese Einstellung durchgeführt wird, muss der Winkel der Vorder- und Hinterkante eingestellt werden (siehe die Seiten 8 und 11).

1. Den Modus auf Wartungsmodus U076 setzen und die Endkante des Originals für die Einstellung abschneiden. Dann dieses auf das Originalbedienfeld der DP-Haupteinheit legen, wobei die mit F und R bedruckte Seite nach oben weisen soll.
2. Die Starttaste drücken, um das eingelegte Original einzuziehen. Vergrößerung, Vorderkanten-Timing und Mittellinie werden dann automatisch eingestellt.
3. Falls die Ergebnisse in Ordnung sind und es sich um eine 7-Segment-Bedienungstafel handelt: Folgendes wird angezeigt. (Punkt1: Gd, Punkt2: 0, Punkt3: 0, Punkt4: 0) Wenn es sich um eine LCD-Bedienungstafel handelt: (Zahlenwerte für CONVEY SPEED, LEAD EDGE ADJ und DP CENTER werden angezeigt.)
4. Falls die Ergebnisse nicht in Ordnung sind und es sich um eine 7-Segment-Bedienungstafel handelt: (nG1, nG2, nG3) und Punkt 1 werden angezeigt. Wenn es sich um eine LCD-Bedienungstafel handelt: (DATA, NG1, NG2) wird angezeigt. (Einzelheiten sind der Wartungsanleitung zu entnehmen).

Regolazione automatica eseguita con l'originale

Prima di eseguire questa regolazione, verificare che l'angolo del bordo principale e l'angolo del bordo di uscita siano regolati (vedere le pagine 8 e 11).

1. Entrare in modalità manutenzione U076 e tagliare il bordo di uscita dell'originale per la regolazione. Quindi posizionarlo sul piano originale dell'unità principale del DP con il lato su cui sono stampati F e R rivolto verso l'alto.
2. Premere il tasto di avvio per alimentare l'originale caricato. L'ingrandimento, la sincronizzazione del bordo principale e la linea centrale, vengono quindi automaticamente regolati.
3. Se i risultati sono OK e il tipo di pannello operativo è quello a 7 segmenti: viene visualizzato quanto segue. (Voce 1: Gd, Voce 2: 0, Voce 3: 0, Voce 4: 0). Se il tipo di pannello operativo è quello LCD: (Vengono visualizzati i valori numerici per CONVEY SPEED, LEAD EDGE ADJ e DP CENTER.)
Se i risultati sono NG e il tipo di pannello operativo è quello a 7 segmenti: vengono visualizzati (nG1, nG2, nG3) e Voce 1. Se il tipo di pannello operativo è quello LCD: viene visualizzato (DATA, NG1, NG2). (Per ulteriori dettagli, vedere il manuale d'istruzioni).

通过调整用原稿进行自动调整

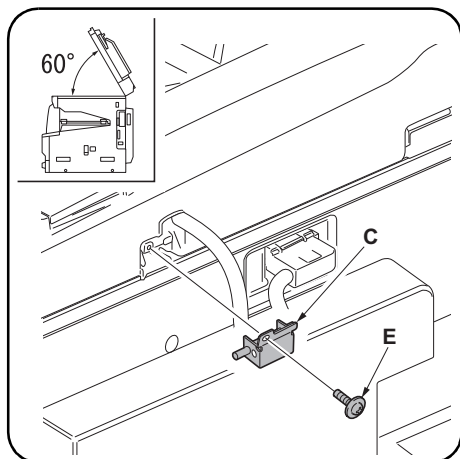
先完成前端倾斜和后端倾斜的调整后，再进行以下操作。（参照第 8 页和第 11 页）

1. 设定为 U076 维护模式并切断调整用原稿的后端。印有 F 和 R 的面朝上，将调整用原稿放在 DP 主机原稿台上。
2. 按启动键供入已装入的原稿。然后自动进行等倍度、前端定时和中心线的调整。
3. 如果调整结果正常，且操作面板采用七段显示屏：显示以下信息。（项目 1: Gd, 项目 2: 0, 项目 3: 0, 项目 4: 0）
如果操作面板采用 LCD 屏：（显示 CONVEY SPEED、LEAD EDGE ADJ 和 DP CENTER 的数值。）
4. 如果调整结果不正常，且操作面板采用七段显示屏：显示 (nG1, nG2, nG3) 和项目 1。如果操作面板采用 LCD 屏：显示 (DATA, NG1, NG2)。
确认原稿设定位置后，再次进行调整（详情请参照维修手册）。

調整用原稿による自動調整

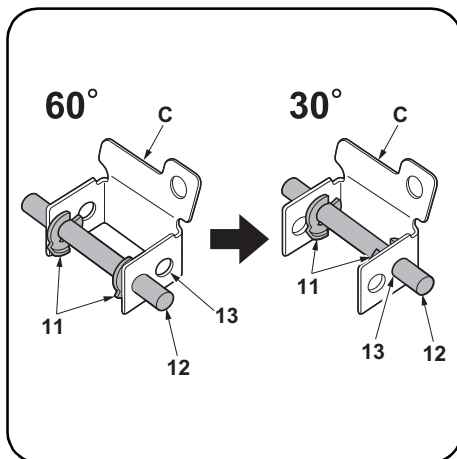
先端斜め調整および後端斜め調整をおこなってから実施する。(8 ページ、11 ページ参照)

1. メンテナンスモード U076 をセットし、調整用原稿の後端をカットし F・R が記載されている面を上 DP 本体の原稿テーブルにセットする。
2. スタートボタンでセットした原稿を搬送させ、等倍度・先端タイミング・センターライン調整が自動的にこなされる。
3. 実行結果が OK の場合、操作部が 7 seg タイプの場合：次のように表示される。（項目 1: Gd, 項目 2: 0, 項目 3: 0, 項目 4: 0）
操作部が LCD タイプの場合 (CONVEY SPEED, LEAD EDGE ADJ, DP CENTER と各数値が表示されます)
4. 実行結果が NG の場合、操作部が 7 seg タイプの場合 (nG1, nG2, nG3) と項目 1 に表示され、操作部が LCD タイプの場合 (DATA, NG1, NG2) と表示されます。
原稿のセット位置を確認し、自動調整をおこなう（詳細はサービスマニュアル参照）。



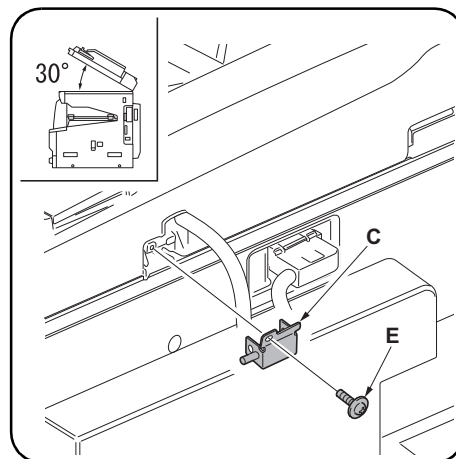
**Adjusting the DP open/close angle
To adjust the DP open/close angle to 60 degrees**

1. Insert the angle adjusting plate (C) and fit it using M4 × 14 screw (E).



To adjust the DP open/close angle to 30 degrees

1. Remove two stop rings (11) and pull the shaft (12) out.
2. Insert the shaft (12) into the holes (13) and refit two stop rings (11).



3. Insert the angle adjusting plate (C) and fit it using M4 × 14 screw (E).

**Réglage de l'angle d'ouverture/
fermeture du DP**

**Pour régler l'angle d'ouverture/
fermeture du DP à 60 degrés**

1. Insérez la plaque de réglage d'angle (C), et fixez-la à l'aide d'une vis M4 × 14 (E).

**Pour régler l'angle d'ouverture/
fermeture du DP à 30 degrés**

1. Retirez deux bagues d'arrêt (11) et tirez l'arbre (12) vers l'extérieur.
2. Insérez l'arbre (12) dans les orifices (13) et remettez les deux bagues d'arrêt (11) en place.

3. Insérez la plaque de réglage d'angle (C), et fixez-la à l'aide d'une vis M4 × 14 (E).

Ajuste del ángulo de apertura/cierre del DP

**Para ajustar el ángulo de apertura/
cierre del DP a 60 grados**

1. Inserte la placa de ajuste de ángulo (C) y fije con el tornillo M4 × 14 (E).

**Para ajustar el ángulo de apertura/
cierre del DP a 30 grados**

1. Desmonte los dos aros de tope (11) y tire del eje (12) hacia fuera.
2. Inserte el eje (12) en los orificios (13) y vuelva a colocar los dos aros de tope (11).

3. Inserte la placa de ajuste de ángulo (C) y fije con el tornillo M4 × 14 (E).

**Einstellen des DP-Öffnungs-/
Schließungswinkels**

**Einstellung des DP-Öffnungs-/
Schließungswinkels auf 60 Grad**

1. Den Winkleinstellhalter (C) einsetzen und mit einer M4 × 14 Schraube (E) befestigen.

**Einstellung des DP-Öffnungs-/
Schließungswinkels auf 30 Grad**

1. Die zwei Sicherungsringe (11) entfernen, und die Achse (12) herausziehen.
2. Die Achse (12) in die Löcher (13) einführen, und die zwei Sicherungsringe (11) wieder anbringen.

3. Den Winkleinstellhalter (C) einsetzen und mit einer M4 × 14 Schraube (E) befestigen.

**Regolazione dell'angolo di apertura e
chiusura del DP**

**Per regolare l'angolo di apertura e
chiusura del DP a 60 gradi**

1. Inserire la piastra di regolazione dell'angolo (C) e fissarla con una vite M4 × 14 (E).

**Per regolare l'angolo di apertura e
chiusura del DP a 30 gradi**

1. Rimuovere i due anelli di arresto (11) ed estrarre l'albero (12).
2. Inserire l'albero (12) nei fori (13) e fissare nuovamente i due anelli di arresto (11).

3. Inserire la piastra di regolazione dell'angolo (C) e fissarla con una vite M4 × 14 (E).

調整 DP の角度

設定 60 度の DP 開閉角度時

1. 挿入調整板 (C), 用 1 個螺丝 M4 × 14 (E) 进行固定。

設定 30 度の DP 角度時

1. 拆下 2 个止动环 (11), 拔下轴 (12)。
2. 将轴 (12) 插入孔 (13), 并将 2 个止动环 (11) 按原样装好。

3. 插入调整板 (C), 用 1 个螺丝 M4 × 14 (E) 进行固定。

DP 開閉角度の調整

DP 開閉角度を 60° に設定する場合

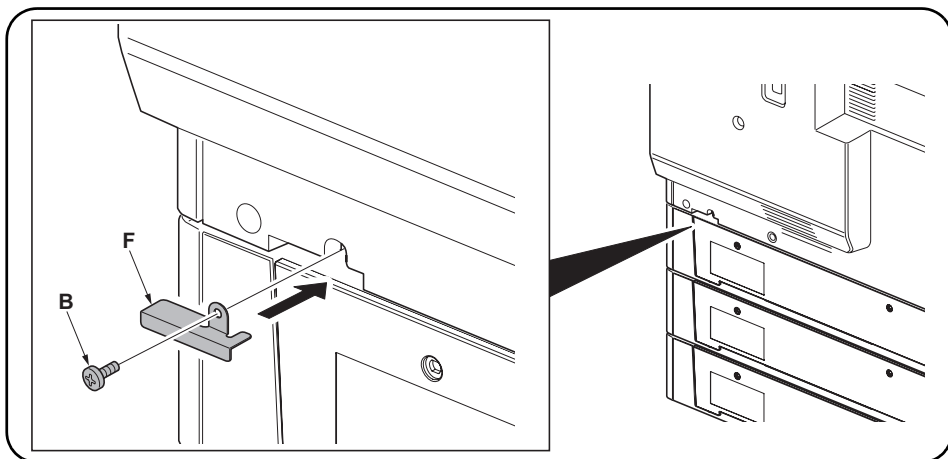
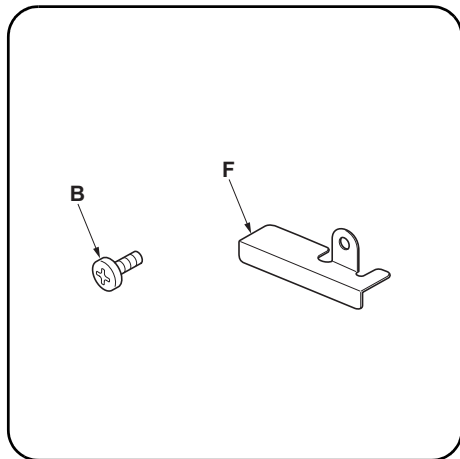
1. 調整板 (C) を挿入し、ビス M4 × 14 (E) 1 本で固定する。

DP 開閉角度を 30° に設定する場合

1. ストップリング (11) 2 個を外し、軸 (12) を引き抜く。
2. 軸 (12) を穴 (13) に挿入し、ストップリング (11) 2 個を元通り取り付け。

3. 調整板 (C) を挿入し、ビス M4 × 14 (E) 1 本で固定する。

INSTALLATION GUIDE FOR PAPER FEEDER



English

Additional step during PF-420 installation

Additional parts

B M3 x 8 screw	1
F Connector cover	1

After installing the PF-420, fasten the connector cover (F) in place using an M3 x 8 screw (B).

Note

This step is not required for 22 ppm MFP models (printer-based models) since the connector cover (F) is already attached.

Français

Opération supplémentaire pour l'installation de PF-420

Pièces supplémentaires

B Vis M3 x 8	1
F Couvercle du connecteur	1

Après avoir installé le PF-420, fixer le couvercle du connecteur (F) en position à l'aide d'une vis M3 x 8 (B).

Remarque

Cette opération n'est pas nécessaire pour les modèles de MFP à 22 ppm (modèles à base imprimante) car le couvercle du connecteur (F) est déjà fixé.

Español

Paso adicional durante la instalación de PF-420

Piezas adicionales

B Tornillo M3 x 8	1
F Cubierta del conector	1

Después de instalar el PF-420, apriete la cubierta del conector (F) en su lugar por medio de un tornillo M3 x 8 (B).

Nota

Este paso no es necesario para los modelos MFP de 22 ppm (modelos basados en impresoras), ya que la cubierta del conector (F) ya está instalada.

Deutsch

Zusätzlicher Schritt bei der PF-420 Installation

Zusätzliche Teile

B M3 x 8 Schraube	1
F Steckverbinderabdeckung	1

Nach Installieren des PF-420 die Steckverbinderabdeckung (F) mittels einer M3 x 8 Schraube (B) befestigen.

Hinweis

Dieser Schritt ist nicht erforderlich für MFP-Modell 22 ppm (Modell auf Druckerbasis), da die Steckverbinderabdeckung (F) dort schon angebracht ist.

Italiano

Passo aggiuntivo durante l'installazione di PF-420

Parti aggiuntive

B Vite M3 x 8	1
F Coperchio del connettore	1

Dopo l'installazione di PF-420, fissare il coperchio del connettore (F) in posizione utilizzando una vite M3 x 8 (B).

Nota

Questo passo non è richiesto per i modelli MPF da 22 ppm (modelli stampante base) poiché il coperchio del connettore (F) è già fissato.

简体中文

安装 PF-420 时的附加步骤

附加部件

B M3 x 8 螺丝	1
F 接插件盖板	1

安装 PF-420 后，使用 1 颗 M3 x 8 螺丝 (B) 将接插件盖板 (F) 紧固到位。

注意

因为 22ppm 型号 (基于打印机的型号) 已安装接插件盖板 (F)，因此无需执行此步骤。

日本語

PF-420 設置時の追加手順

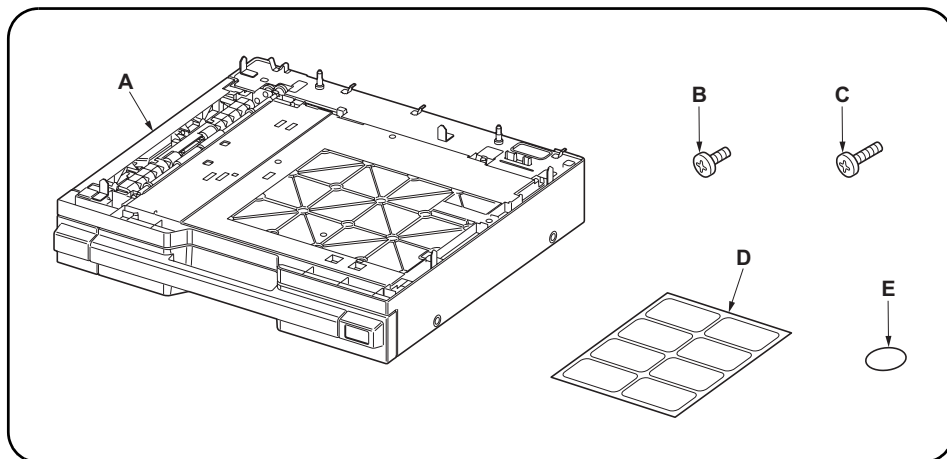
追加部品

B ビス M3 x 8	1
F コネクタカバー	1

PF-420 設置後、コネクタカバー (F) をビス M3 x 8 (B) 1 本で固定してください。

注意

MFP (プリンタ標準機) の 22 枚機は、すでにコネクタカバー (F) が取り付けられている為、上記手順は不要です。



English

Supplied parts

A Cassette	1
B M3 × 8 screw	4
C M3 × 12 screw	1
D Cassette size label	1
E Hole seal.....	3

Be sure to remove any tape and/or cushioning material from supplied parts.

Procedure

Be sure to turn off the main switch of the main body of the copier or MFP and disconnect the power plug of the main body from the wall outlet before starting to install the Duplex Unit.

Français

Pièces fournies

A Cassette	1
B Vis M3 x 8	4
C Vis M3 x 12	1
D tiquette au format cassette	1
E Obturateur	3

Veillez à retirer les morceaux de bande adhésive et/ou les matériaux de rembourrage des pièces fournies.

Procédure

Veillez à bien mettre l'interrupteur principal du corps principal du copieur ou du MFP hors tension et à débrancher la fiche d'alimentation de la prise murale avant de commencer l'installation de l'unité recto-verso.

Español

Partes suministradas

A Casete	1
B Tornillo M3 x 8	4
C Tornillo M3 x 12	1
D Etiqueta de tamaño del casete	1
E Sello para orificios	3

Asegúrese de despegar todas las cintas y/o material amortiguador de las partes suministradas.

Procedimiento

Asegúrese de apagar el interruptor principal del cuerpo principal de la copiadora o MFP y de desconectar el enchufe del receptáculo de pared antes de empezar a instalar la Unidad Dúplex.

Deutsch

Gelieferte Teile

A Kassette.....	1
B M3 x 8 Schrauben	4
C M3 x 12 Schraube	1
D Kassettengrößen-Etikett	1
E Abdeckungsetikett	3

Entfernen Sie Klebeband und/oder Dämpfungsmaterial vollständig von den mitgelieferten Teilen.

Verfahren

Schalten Sie unbedingt den Hauptschalter der Haupteinheit des Kopierers oder MFP aus, und ziehen Sie den Netzstecker von der Netzsteckdose ab, bevor Sie mit der Installation der Duplex-Einheit beginnen.

Italiano

Parti di fornitura

A Cassetto	1
B Viti M3 x 8	4
C Vite M3 x 12.....	1
D Etichetta del formato del cassetto.....	1
E Copriforo	3

Accertarsi di rimuovere tutti i nastri adesivi e/o il materiale di imbottitura dalle parti fornite.

Procedura

Assicurarsi di spegnere l'interruttore principale del corpo principale della copiatrice o dell'MFP e di disconnettere il cordone di alimentazione dalla presa a muro prima di dare inizio alla procedura d'installazione dell'Unità Duplex.

简体中文

A 纸盒.....	1
B M3 × 8 螺丝	4
C M3 × 12 螺丝.....	1
D 纸盒尺寸标签.....	1
E 孔用密封盖.....	3

如果附属品上带有固定胶带、缓冲材料时务必揭下。

安装步骤

安装供纸盒时，必须先关闭复印机或 MFP 本体的主电源开关，拔下本体电源插头后，才能进行操作。

日本語

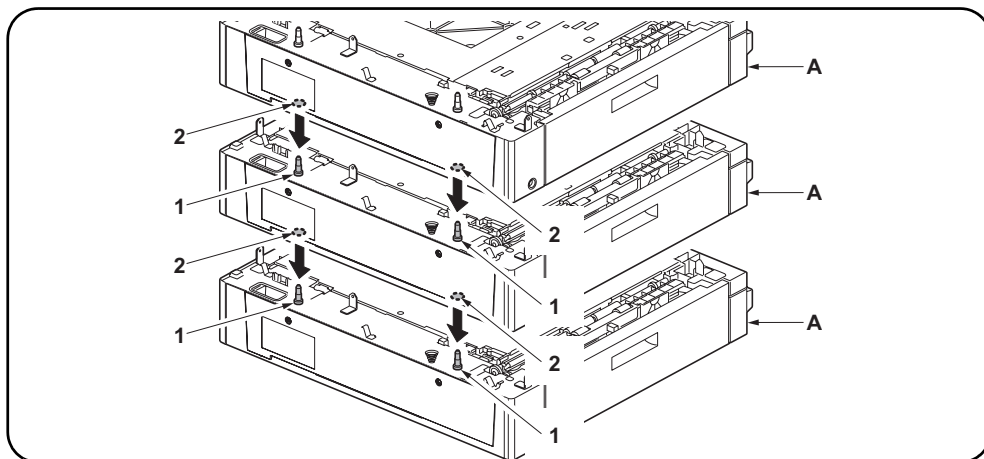
同梱品

A カセット.....	1
B ビス M3 × 8	4
C ビス M3 × 12	1
D カセットサイズラベル.....	1
E カバーラベル.....	3

同梱品に固定テープ、緩衝材が付いている場合は必ず取り外すこと。

取付手順

カセットを取り付ける際は、必ず複写機または MFP (プリンタ標準機) 本体のメインスイッチを OFF にし、本体の電源プラグを抜いてから作業をおこなうこと。



Up to three cassettes can be stacked.
(For 22 ppm MFP models, no more than two cassettes can be stacked.)

NOTICE

When stacking 2 or more cassettes, ensure that all the cassettes are stacked before placing the main body on the cassettes.

1. Place the main body directly down onto the cassettes by aligning the positioning insertion sections (2) of the top cassette with the positioning pins (1) at the rear of the bottom cassette (A) (only when stacking 2 or more cassettes).
When placing the main body on the cassettes, take care not to hit the main body against the cassette pins or ground plate.

Il est possible d'empiler jusqu'à trois cassettes.
Pour les modèles de MFP à 22 ppm, il est possible d'empiler jusqu'à deux cassettes.

AVIS

Pour empiler 2 cassettes ou plus, s'assurer que toutes les cassettes sont en place avant de placer le corps principal sur les cassettes.

1. Placez directement le corps principal sur les cassettes en alignant les sections d'insertion de positionnement (2) de la cassette supérieure avec les goupilles de positionnement (1) à l'arrière de la cassette (A) (dans le cas d'un empilage de 2 cassettes ou plus uniquement).
Lorsque le corps principal est placé sur les cassettes, attention à ne pas le cogner le corps principal contre les goupilles ou la plaque de terre de la cassette.

Se pueden instalar hasta tres casetes uno encima de otro.
(Para los modelos MFP de 22 ppm, no se puede apilar más dos casetes.)

AVISO

Cuando apile 2 casetes o más, asegúrese de que todos los casetes estén apilados antes de colocar el cuerpo principal sobre ellos.

1. Coloque el cuerpo principal directamente sobre los casetes, alineando las secciones de inserción de ubicación (2) del casete superior con los pasadores de ubicación (1), en la parte posterior del casete inferior (A) (solo cuando se apilan 2 casetes o más).
Cuando coloque el cuerpo principal sobre los casetes, tenga cuidado de no golpear el cuerpo principal contra los pasadores o placa de fondo de los casetes.

Bis zu drei Kassetten können übereinander gestapelt werden.
(Bei MFP-Modell 22 ppm können maximal zwei Kassetten gestapelt werden.)

HINWEIS

Wenn 2 oder mehr Kassetten gestapelt werden, sind zuerst alle Kassetten zu stapeln, bevor man die Haupteinheit auf die Kassetten setzt.

1. Die Haupteinheit direkt auf die Kassetten setzen; dabei die Positionsstiftnuten (2) der oberen Kasette auf die Positionsstifte (1) am hinteren Teil der unteren Kasette (A) ausrichten (nur bei Stapeln von 2 oder mehr Kassetten).
Achten Sie beim Platzieren der Haupteinheit darauf, dass Sie nicht gegen die Kassettenstifte oder die Bodenplatte stoßen.

È possibile impilare fino a tre cassettoni.
(Per i modelli MFP da 22 ppm, non possono essere impilati più di due cassettoni.)

NOTIFICA

Quando si impilano 2 o più cassettoni, assicurarsi che tutti i cassettoni siano impilati prima di posare il corpo principale sui cassettoni.

1. Posizionare il corpo principale direttamente sopra i cassettoni, allineando le posizioni delle sezioni di inserimento (2) del cassettone superiore con i perni di posizionamento (1) alla parte posteriore del cassettone inferiore (A) (solo quando si impilano 2 o più cassettoni).
Quando si posiziona il corpo principale sui cassettoni, prestare attenzione a non urtare il corpo principale contro i perni di posizionamento o la piastra di messa a terra.

最多可堆叠三个纸盒。
(22 ppm MFP 机型最多可堆叠 2 个纸盒。)

注意

堆叠 2 个或 2 个以上的纸盒时，确保所有纸盒已正确堆叠后方可将主机置于纸盒上。

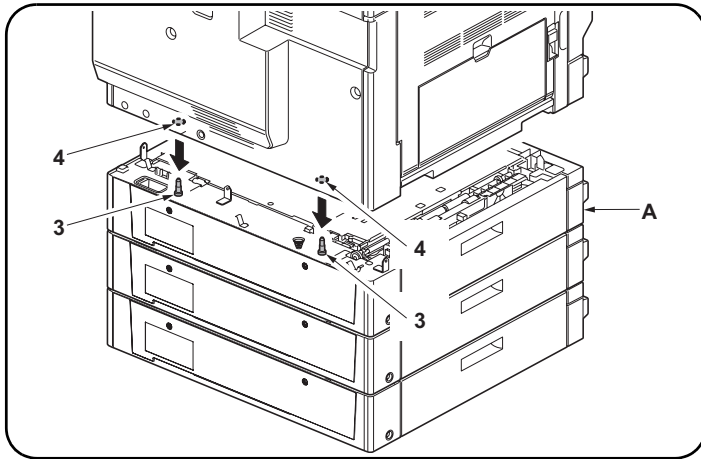
1. 将顶部纸盒的定位插入部 (2) 对准底部纸盒 (A) 后部的定位针 (1)，然后将主机直接置于顶部纸盒上 (仅当堆叠 2 个或 2 个以上的纸盒时)。
将主机置于纸盒上时，请注意不要碰到纸盒定位针或接地板。

カセットは最大 3 段まで装着可能。
(MFP (プリンタ標準機) の 22 枚機は 2 段まで装着可能)

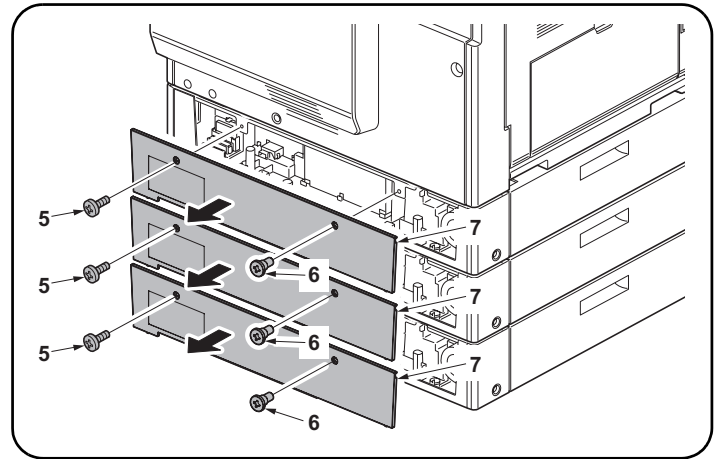
注意

カセットを 2 段以上装着する場合は、先に全てのカセットを重ねた状態にしてから、本体をのせること。

1. 下側カセット (A) 後部の位置決めピン (1) に、上側カセット (A) の位置決め挿入部 (2) を合わせ、真上からのせる。(2 段以上装着時のみ)
のせる際、カセットのピンおよびアース板に当たらないように作業を行うこと。



2. Place the main body directly down onto the cassettes by aligning the positioning insertion sections of the main body (4) with the positioning pins (3) at the rear of the cassette (A). When placing the main body on the cassettes, take care not to hit the main body against the cassette pins or ground plate.



3. Remove the screw (5) and pin (6) from each cassette and remove the back covers (7).

2. Placez directement le corps principal sur les cassettes en alignant les sections d'insertion de positionnement (4) du corps principal avec les goupilles de positionnement (3) à l'arrière de la cassette (A) (dans le cas d'un empilage de 2 cassettes ou plus uniquement). Lorsque le corps principal est placé sur les cassettes, attention à ne pas le cogner le corps principal contre les goupilles ou la plaque de terre de la cassette.

3. Déposez la vis (5) et la goupille (6) de chaque cassette et déposez les capots arrière (7).

2. Coloque el cuerpo principal directamente sobre los casetes, alineando las secciones de inserción de ubicación del cuerpo principal (4) con los pasadores de ubicación (3), en la parte posterior del casete (A). Cuando coloque el cuerpo principal sobre los casetes, tenga cuidado de no golpear el cuerpo principal contra los pasadores o placa de fondo de los casetes.

3. Quite el tornillo (5) y el pasador (6) de cada casete y desmonte las cubiertas posteriores (7).

2. Die Haupteinheit direkt auf die Kassetten setzen; dabei die Positionsstiftnuten der Haupteinheit (4) auf die Positionsstifte (3) am hinteren Teil der Kassette (A) ausrichten. Achten Sie beim Platzieren der Haupteinheit darauf, dass Sie nicht gegen die Kassettenstifte oder die Bodenplatte stoßen.

3. Die Schraube (5) und den Stift (6) jeder Kassette entfernen und die hinteren Abdeckungen (7) abnehmen.

2. Mettere il corpo principale direttamente sopra i cassettoni allineando le posizioni delle sezioni di inserimento del corpo principale (4) con i perni di posizionamento (3) nella parte posteriore del cassettone (A). Quando si posa il corpo principale sui cassettoni, fare molta attenzione a non urtare il corpo principale contro i perni di posizionamento o la piastra di messa a terra.

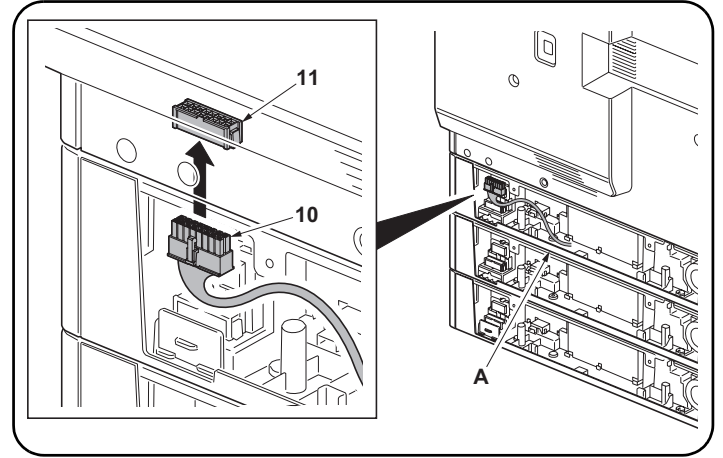
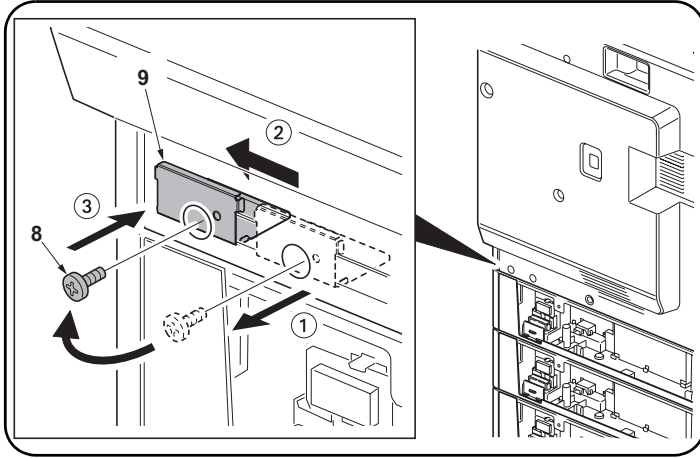
3. Rimuovere la vite (5) e il perno (6) da ciascun cassettone e rimuovere i coperchi posteriori (7).

2. 将主机的定位插入部(4)对准纸盒(A)后部的定位针(3),然后将主机直接置于纸盒上。
将主机置于纸盒上时,请注意不要碰到纸盒定位针或接地板。

3. 取下各纸盒上的螺丝(5)和销钉(6),然后取下后盖板(7)。取下各纸

2. カセット(A)後部の位置決めピン(3)に、本体の位置決め挿入部(4)を合わせ、真上からのせる。
のせる際、カセットのピンおよびアース板に当たらないように作業を行うこと。

3. 各カセットのビス(5)1本およびピン(6)1本を外し、後カバー(7)を取り外す。



4. Remove the screw (8) on the rear of the main body.
5. Slide the connector cover (9) on the inside of the main body back cover in the direction of the arrow.
6. Secure the connector cover (9) using the screw (8) removed in step 4.

7. Plug the connector (10) for the cassette (A) into the connector socket (11).

4. Déposez la vis (8) au dos du corps principal.
5. Faites glisser le couvercle du connecteur (9) se trouvant à l'intérieur du couvercle arrière du corps principal dans la direction de la flèche.
6. Fixez le couvercle du connecteur (9) à l'aide de la vis (8) déposée à l'étape 4.

7. Raccordez le connecteur (10) de la cassette (A) avec l'embase (11).

4. Quite el tornillo (8) de la parte posterior del cuerpo principal.
5. Deslice, en la dirección que muestra la flecha, la cubierta del conector (9), en el interior de la cubierta posterior del cuerpo principal.
6. Asegure la cubierta del conector (9) por medio del tornillo (8) desmontado en el paso 4.

7. Enchufe el conector (10) del casete (A) en el enchufe del conector (11).

4. Die Schraube (8) an der Rückseite der Haupteinheit abnehmen.
5. Die Steckverbinderabdeckung (9) an der Innenseite der hinteren Haupteinheitsabdeckung in der Pfeilrichtung verschieben.
6. Die Steckverbinderabdeckung (9) mit der in Schritt 4 entfernten Schraube (8) sichern.

7. Den Steckverbinder (10) für die Kassette (A) in die Steckverbinderbuchse (11) stecken.

4. Rimuovere la vite (8) sulla parte posteriore del corpo principale.
5. Slittare il coperchio del connettore (9) all'interno del coperchio posteriore del corpo principale nella direzione della freccia.
6. Fissare il coperchio del connettore (9) usando la vite (8) rimossa nel punto 4.

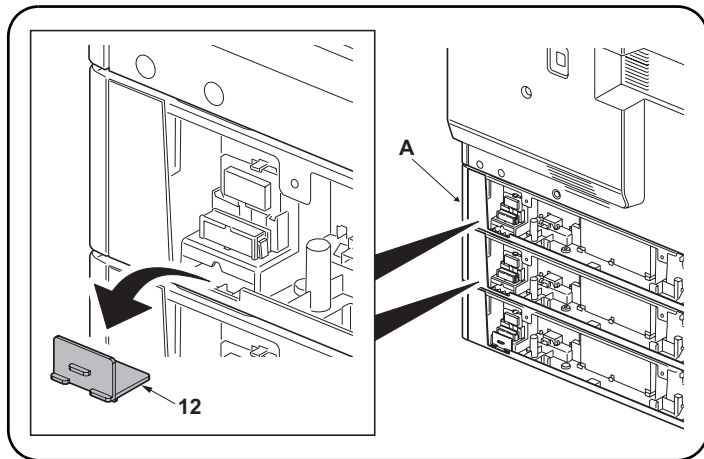
7. Collegare il connettore (10) per il cassetto (A) nella presa del connettore (11).

4. 取下主机后部的螺丝 (8)。
5. 沿箭头方向滑动位于主机后盖板内侧的接插件盖板 (9)。
6. 使用在步骤 4 中取下的螺丝 (8) 紧固接插件盖板 (9)。

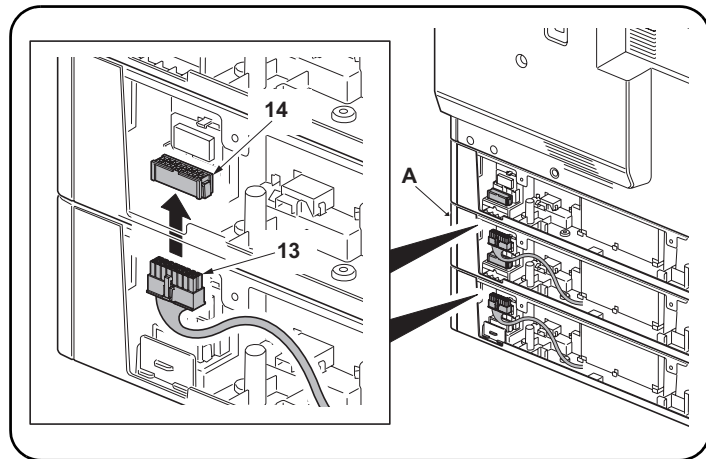
7. 将纸盒 (A) 的接插件 (10) 插入插座 (11) 中。

4. 本体後側のビス (8) 1 本を外す。
5. 本体後カバー内側にあるコネクタカバー (9) を、矢印方向にスライドさせる。
6. 手順 4 で外したビス (8) 1 本で、コネクタカバー (9) を固定する。

7. カセット (A) のコネクタ (10) を本体のコネクタ (11) に接続する。



- 8. Remove the connector cover (12) from the cassettes other than the lowest cassette (A).**
(only when stacking 2 or more cassettes)



- 9. Plug the connector (13) for the lower cassette (A) into the connector socket (14) in the upper cassette (A).**
(only when stacking 2 or more cassettes)

- 8. Déposez le couvercle du connecteur (12) des cassettes autres que la cassette (A).**
(dans le cas d'un empilage de 2 cassettes ou plus uniquement)

- 9. Raccordez le connecteur (13) de la cassette inférieure (A) avec l'embase (14) de la cassettes supérieure (A).**
(dans le cas d'un empilage de 2 cassettes ou plus uniquement)

- 8. Desmonte la cubierta del conector (12) de todos los casetes, excepto del inferior (A).**
(solo cuando se apilan 2 casetes o más)

- 9. Enchufe el conector (13) del casete inferior (A) en el enchufe del conector (14) del casete superior (A).**
(solo cuando se apilan 2 casetes o más)

- 8. Die Steckverbinderabdeckung (12) von den Kassetten mit Ausnahme der untersten Kassette (A) abnehmen.**
(nur bei Stapeln von 2 oder mehr Kassetten)

- 9. Den Steckverbinder (13) für die untere Kassette (A) in die Steckverbinderbuchse (14) der oberen Kassette (A) stecken.**
(nur bei Stapeln von 2 oder mehr Kassetten)

- 8. Rimuovere il coperchio del connettore (12) dai cassettoni, eccetto quello del cassettone (A) più in basso.**
(solo quando si impilano 2 o più cassettoni)

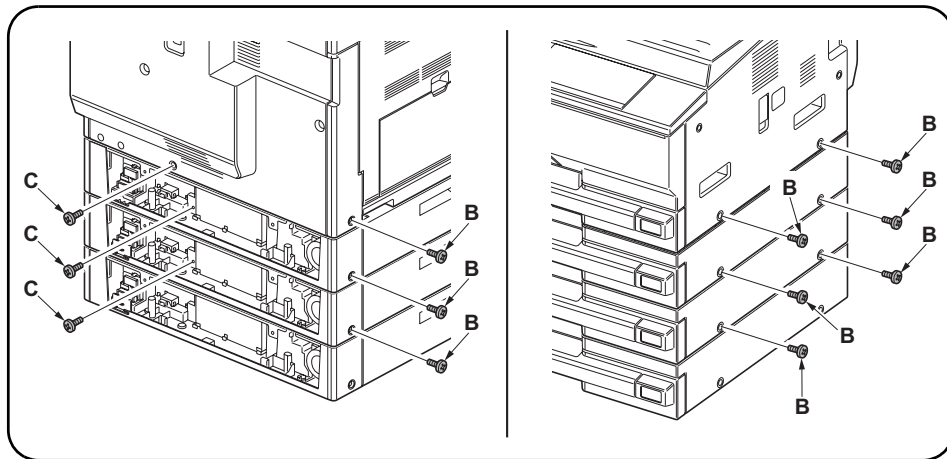
- 9. Collegare il connettore (13) per il cassettone (A) inferiore, nella presa del connettore (14) nel cassettone (A) superiore.**
(solo quando si impilano 2 o più cassettoni)

- 8. 取下纸盒（底部纸盒（A）除外）上的接插件盖板（12）。**
(仅当堆叠 2 个或 2 个以上的纸盒时)

- 9. 将下部纸盒（A）的接插件（13）插入上部纸盒（A）的插座（14）中。**
(仅当堆叠 2 个或 2 个以上的纸盒时)

- 8. 最下段以外のカセット（A）より、コネクタカバー（12）を取り外す。**
(2 段以上装着時のみ)

- 9. 下側カセット（A）のコネクタ（13）を上側カセット（A）のコネクタ（14）に接続する。(2 段以上装着時のみ)**

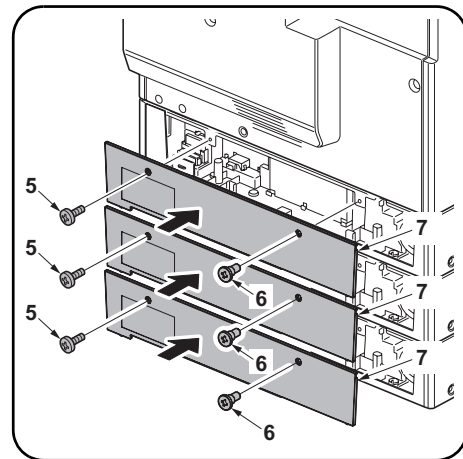


10. Secure each of the cassettes using three M3 x 8 screws (B) and one M3 x 12 screw (C).

Right: Two M3 x 8 screws (B)

Left: One M3 x 8 screw (B)

Rear: One M3 x 12 screw (C)



11. Re-attach the back cover (7) to each cassette using the screw (5) and pin (6).

10. Fixez chacune des cassettes à l'aide des trois vis M3 x 8 (B) et la vis M3 x 12 (C).

Droite : Deux vis M3 x 8 (B)

Gauche : Une vis M3 x 8 (B)

Arrière : Une vis M3 x 12 (C)

11. Reposez le capot arrière (7) de chaque cassette à l'aide de la vis (5) et de la goupille (6).

10. Asegure cada uno de los casetes por medio de tres tornillos M3 x 8 (B) y un tornillo M3 x 12 (C).

Derecha: dos tornillos M3 x 8 (B)

Izquierda: un tornillo M3 x 8 (B)

Atrás: un tornillo M3 x 12 (C)

11. Vuelva a instalar la cubierta posterior (7) de cada casete por medio del tornillo (5) y el pasador (6).

10. Jede Kasette mit jeweils drei M3 x 8 Schrauben (B) und einer M3 x 12 Schraube (C) sichern.

Rechts: Zwei M3 x 8 Schrauben (B)

Links: Eine M3 x 8 Schraube (B)

Hinten: Eine M3 x 12 Schraube (C)

11. Die hintere Abdeckung (7) wieder mittels Schraube (5) und Stift (6) an jeder Kasette anbringen.

10. Fissare ciascuno dei cassettoni usando tre viti M3 x 8 (B) e una vite M3 x 12 (C).

Lato destro: due viti M3 x 8 (B)

Lato sinistro: una vite M3 x 8 (B)

Lato posteriore: una vite M3 x 12 (C)

11. Ricollocare il coperchio posteriore (7) a ciascun cassettone usando la vite (5) e il perno (6).

10. 使用 3 个 M3 x 8 螺丝 (B) 和 1 个 M3 x 12 螺丝 (C) 紧固所有的纸盒。

右侧: 2 个 M3 x 8 螺丝 (B)

左侧: 1 个 M3 x 8 螺丝 (B)

后部: 1 个 M3 x 12 螺丝 (C)

11. 使用螺丝 (5) 和销钉 (6) 重新安装后盖板 (7)。

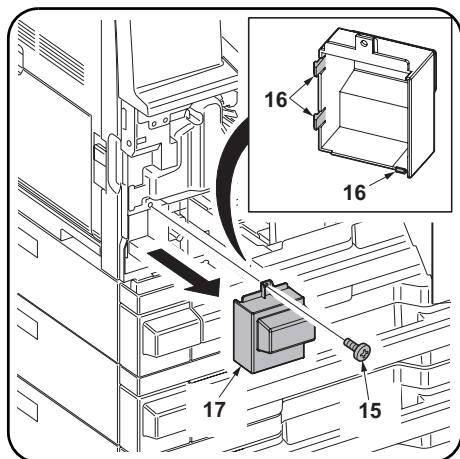
10. 各カセットをビス M3 x 8 (B) 3 本およびビス M3 x 12 (C) 1 本で固定する。

右側: ビス M3 x 8 (B) 各 2 本

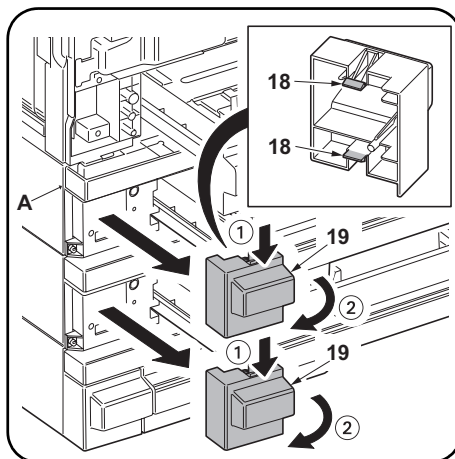
左側: ビス M3 x 8 (B) 各 1 本

後部: ビス M3 x 12 (C) 各 1 本

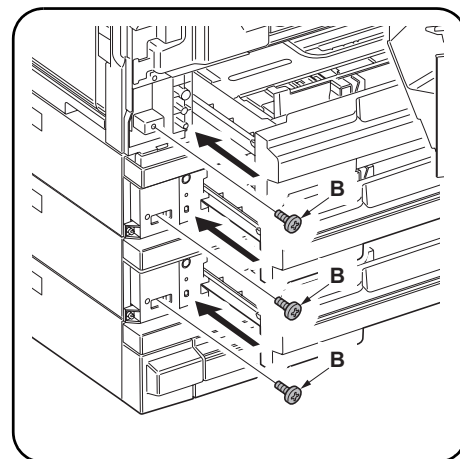
11. 各カセットの後カバー (7) を、ビス (5) 1 本およびピン (6) 1 本で、元通り取り付け。



12. Pull the cassette out of the main body and open the front cover.
13. Remove the screw (15) and disengage the 3 hooks (16). Then remove the cover (17).



14. Pull out the cassettes other than the lowest cassette (A). (only when stacking 2 or more cassettes)
15. Disengage the 2 hooks (18) and remove the cover (19). (only when stacking 2 or more cassettes)
Remove the cover (19) by pushing it in the direction of arrow ① and turning it in the direction of arrow ②.



16. Secure each cassette using an M3 x 8 screw (B).
17. Re-attach the removed components.

12. Sortez la cassette du corps principal et ouvrez le capot avant.
13. Déposez la vis (15) et libérez les 3 crochets (16). Déposez ensuite le capot (17).

14. Sortez les cassettes sauf la cassette inférieure (A). (dans le cas d'un empilage de 2 cassettes ou plus uniquement)
15. Libérez les 2 crochets (18) et enlevez la capot (19). (dans le cas d'un empilage de 2 cassettes ou plus uniquement)
Déposez le capot (19) en poussant dans la direction de la flèche ① et en tournant dans la direction de la flèche ②.

16. Fixez chaque cassette à l'aide d'une vis M3 x 8 (B).
17. Reposez les pièces déposées.

12. Extraiga el casete del cuerpo principal y abra la cubierta frontal.
13. Quite el tornillo (15) y desenganche los 3 ganchos (16). Después, desmonte la cubierta (17).

14. Extraiga los casetes, excepto el inferior (A). (solo cuando se apilan 2 casetes o más)
15. Desenganche los 2 ganchos (18) y desmonte la cubierta (19). (solo cuando se apilan 2 casetes o más)
Quite la cubierta (19) empujándola en la dirección de la flecha ① y girndola en la dirección de la flecha ②.

16. Asegure cada uno de los casetes por medio de un tornillo M3 x 8 (B).
17. Vuelva a instalar los componentes desmontados.

12. Die Kassette aus der Haupteinheit herausziehen und die Frontabdeckung öffnen.
13. Die Schraube (15) entfernen und die 3 Haken (16) aushaken. Dann die Abdeckung (17) abnehmen.

14. Die Kassetten mit Ausnahme der untersten Kassette (A) herausziehen. (nur bei Stapeln von 2 oder mehr Kassetten)
15. Die 2 Haken (18) aushaken und die Abdeckung (19) abnehmen. (nur bei Stapeln von 2 oder mehr Kassetten)
Die Abdeckung (19) abnehmen, indem man sie in der Pfeilrichtung ① drückt und in der Pfeilrichtung ② dreht.

16. ede Kassette mit einer M3 x 8 Schraube (B) sichern.
17. Die abgenommenen Komponenten wieder anbringen.

12. Estrarre il cassetto dal corpo principale ed aprire il coperchio anteriore.
13. Rimuovere la vite (15) e sganciare i 3 ganci (16). Quindi rimuovere il coperchio (17).

14. Estrarre i cassetti tranne quello del cassettone (A) più in basso. (solo quando si impilano 2 o più cassettoni)
15. sganciare i 2 ganci (18) e rimuovere il coperchio (19). (solo quando si impilano 2 o più cassettoni)
Rimuovere il coperchio (19) spingendolo nella direzione della freccia ① e ruotandolo nella direzione della freccia ②.

16. Fissare ciascun cassetto usando una vite M3 x 8 (B).
17. Ricollegare i componenti rimossi.

12. 从主机中拉出纸盒，然后打开前盖板。
13. 取下螺丝 (15)，松开 3 个卡扣 (16)。然后取下盖板 (17)。

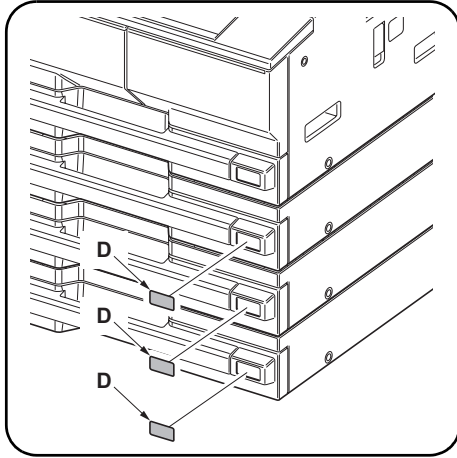
14. 拉出除底部纸盒 (A) 之外的纸盒。
(仅当堆叠 2 个或 2 个以上的纸盒时)
15. 松开 2 个卡扣 (18)，然后取下盖板 (19)。
(仅当堆叠 2 个或 2 个以上的纸盒时)
取下盖板 (19) 时，沿箭头①方向推盖板然后沿箭头②方向转动盖板。

16. 使用 M3 × 8 螺丝 (B) 紧固所有的纸盒。
17. 重新安装取下的部件。

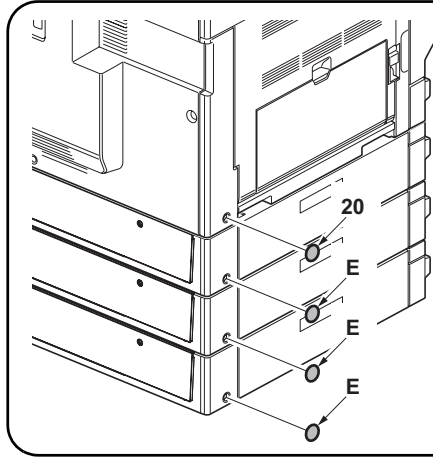
12. 本体のカセットを引き出し、前カバーを開く。
13. ビス (15) 1 本およびフック (16) 3 箇所を外し、カバー (17) を取り外す。

14. 最下段以外のカセット (A) のカセットを引き出す。(2 段以上装着時のみ)
15. フック (18) 2 箇所を外し、カバー (19) を取り外す。(2 段以上装着時のみ)
カバー (19) は、矢印方向①より押し矢印方向②にまわすように外す。

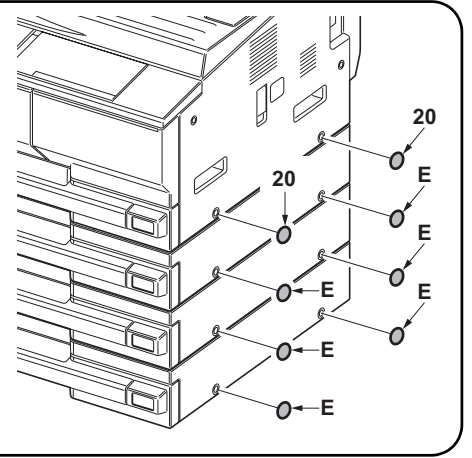
16. 各カセットをビス M3 × 8 (B) 1 本で固定する。
17. 取り外した部品を元通りに取り付け。



18. Stick cassette size labels (D) onto each cassette according to the paper size to be used.



19. Stick the hole seals (20) supplied with the main unit over the 3 screw holes in the main unit.



20. Stick the hole seals (E) supplied with the cassettes over the 3 screw holes in each cassette.

Checking the operation

Connect the power plug of the machine to the wall outlet and turn the main power switch on.

18. Collez les étiquettes au format cassette (D) sur chaque cassette en fonction du papier utilisé.

19. Collez les obturateurs (20) fournis avec l'unité principale sur les 3 de vis de cette unité principale.

20. Collez les obturateurs (E) fournis avec les cassettes sur les 3 de vis de chaque cassette.

Vérification du fonctionnement

Insérer la fiche d'alimentation de la machine dans la prise murale et mettre la machine sous tension.

18. Pegue las etiquetas de tamaño de los casetes (D) en cada uno de ellos, de acuerdo al tamaño de papel a utilizar.

19. Pegue los sellos para orificios (20), suministrados con la unidad principal, sobre los 3 orificios para tornillos de la unidad principal.

20. Pegue los sellos para orificios (E), suministrados con los casetes, sobre los 3 orificios para tornillos de cada casete.

Verificación del funcionamiento

Conecte el enchufe eléctrico de la máquina en un tomacorriente de la pared y conecte el interruptor principal.

18. Kassettengrößen-Etiketten (D) entsprechend der zu verwendenden Papiergröße auf die Kassetten kleben.

19. Die mit der Haupteinheit gelieferten Abdeckungsetiketten (20) auf die 3 Schraublöcher in der Haupteinheit kleben.

20. Die mit den Kassetten gelieferten Abdeckungsetiketten (E) auf die 3 Schraublöcher in jeder Kassette kleben.

Überprüfen des Betriebs

Den Netzstecker der Maschine in die Steckdose stecken und den Betriebsschalter einschalten.

18. ncollare le etichette del formato del cassetto (D) su ciascun cassetto, a seconda del formato carta utilizzato.

19. ncollare i copriforo (20) forniti con l'unità principale, sui 3 fori delle viti nell'unità principale.

20. Incollare i copriforo (E) forniti con i cassettoni sui 3 fori delle viti in ciascun cassetto.

Verifica di funzionamento

Collegare la spina del cavo di alimentazione della macchina alla presa a muro della rete elettrica e accendere l'interruttore principale di alimentazione.

18. 根据所用纸张尺寸将纸盒尺寸标签 (D) 粘贴至各纸盒。

19. 将随主机提供的孔用密封盖 (20) 粘贴至主机的 3 个螺丝孔上。

20. 将随纸盒提供的孔用密封盖 (E) 粘贴至各纸盒的 3 个螺丝孔上。

操作确认

将机器主机上的电源插头插入插座中，打开主电源开关。

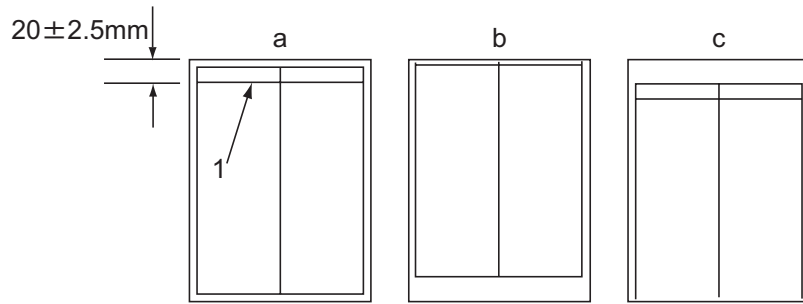
18. 使用する用紙サイズに合わせて、カセットサイズラベル (D) を各カセットに貼り付ける。

19. 本体のビス穴 3 箇所に本体同梱のカバーラベル (20) を貼り付ける。

20. 各カセットのビス穴 3 箇所にカセット同梱のカバーラベル (E) を貼り付ける。

動作確認

機械本体の電源プラグをコンセントに差し込み、メインスイッチを ON にする。



**If the operation panel is a 7-segment type:
Adjusting the leading edge timing**

1. Run maintenance mode 034.
Press the image quality mode key until "Text" is lit. (group 1)
2nd level cassette: Press the exposure key until "exp3" is lit. (mode 3)
3rd level cassette: Press the exposure key until "exp4" is lit. (mode 4)
4rd level cassette: Press the exposure key until "exp5" is lit. (mode 5)
Press the Interrupt key to output the test pattern in duplex mode and check the image.
<Reference value> Within 20 ± 2.5 (copy example (a) image)
If the gap between the edge of the paper and the copy example line (1) is larger than the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-5.0 - +10.0$
Changing the value by one moves the leading edge by 0.1 mm.
3. Output the test pattern again.
4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.
<Reference value> Within 20 ± 2.5 mm (copy example (a) image)

Si le panneau de commande est du type à 7 segments:

Réglage de la synchronisation du bord avant

1. Exécutez le mode de maintenance 034.
Appuyez sur la touche de mode de qualité d'image jusqu'à ce que "Text" s'allume. (groupe 1)
Cassette de 2ème niveau: Appuyez sur la touche d'exposition jusqu'à ce que "exp3" s'allume. (mode 3)
Cassette de 3ème niveau: Appuyez sur la touche d'exposition jusqu'à ce que "exp4" s'allume. (mode 4)
Cassette de 4ème niveau: Appuyez sur la touche d'exposition jusqu'à ce que "exp5" s'allume. (mode 5)
Appuyez sur la touche d'interruption pour imprimer un motif de test et vérifiez l'image imprimée.
<Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)
Si l'écart entre le bord du papier et le trait sur l'exemple de copie (1) est supérieur à la valeur de référence, procédez au réglage suivant.

2. Pour l'image dans l'exemple de copie (b): augmenter la valeur.
Pour l'image dans l'exemple de copie (c): diminuer la valeur.
Plage de paramètres: $-5,0 - +10,0$
Lorsqu'on change la valeur d'une unité, le bord avant se déplace de 0,1 mm.
3. Produisez à nouveau le motif de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)

Si el tablero de controles es de tipo 7 segmentos:

Ajuste de la sincronización del borde superior

1. Active el modo de mantenimiento 034.
Presione la tecla de modo de calidad de imagen hasta que se encienda "Text" (grupo 1)
Casete de 2º nivel: Presione la tecla de exposición hasta que se encienda "exp3" (modo 3)
Casete de 3º nivel: Presione la tecla de exposición hasta que se encienda "exp4" (modo 4).
Casete de 4º nivel: Presione la tecla de exposición hasta que se encienda "exp5" (modo 5)
Presione la tecla de interrupción para imprimir un patrón de prueba y compruebe la imagen impresa.
<Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a))
Si el espacio entre el borde del papel y la línea de la copia de muestra (1) es mayor que el valor de referencia, realice el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor
Gama de ajustes: $-5,0 - +10,0$
Un cambio de valor en una unidad mueve el extremo guía en 0,1 mm.
3. Das Testmuster erneut ausgeben.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a))

Wenn es sich um eine 7-Segment-Bedienungsfläche handelt:

Einstellen des Vorderkanten-Timings

1. Führen Sie den Wartungsmodus 034 aus.
Drücken Sie die Bildqualitätsmodustaste, bis "Text" aufleuchtet. (Gruppe 1)
Kassette 2. Stufe: Drücken Sie die Belichtungstaste, bis "exp3" aufleuchtet. (Modus 3)
Kassette 3. Stufe: Drücken Sie die Belichtungstaste, bis "exp4" aufleuchtet. (Modus 4)
Kassette 4. Stufe: Drücken Sie die Belichtungstaste, bis "exp5" aufleuchtet. (Modus 5)
Drücken Sie die Unterbrechungstaste, um ein Testmuster auszudrucken, und überprüfen Sie das Druckbild. <Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild)
Falls der Abstand zwischen der Papierkante und der Kopienmusterlinie (1) größer als der Bezugswert ist, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-5,0 - +10,0$
Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.
3. Machen Sie eine erneute Probekopie.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild)

Se il tipo di pannello operativo è quello a 7 segmenti:

Regolazione della sincronizzazione del bordo principale

1. Avviare il modo manutenzione 034.
Premere il tasto di modo della qualità dell'immagine finché "Text" non si illumina. (gruppo 1)
Cassetto del 2° livello: Premere il tasto di esposizione finché "exp3" non si illumina. (modo 3)
Cassetto del 3° livello: Premere il tasto di esposizione finché "exp4" non si illumina. (modo 4)
Cassetto del 4° livello: Premere il tasto di esposizione finché "exp5" non si illumina. (modo 5)
Premere il tasto di interruzione per stampare i modelli di prova e controllare l'immagine stampata.
<Valore di riferimento> Entro $20 \pm 2,5$ mm (immagine dell'esempio di copia (a))
Se lo scostamento tra il bordo della carta e la linea dell'esempio di copia (1) è maggiore rispetto al valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-5,0 - +10,0$
Cambiando il valore di una unità si sposta il bordo di entrata di 0.1 mm.
3. Eseguire di nuovo i modelli di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro $20 \pm 2,5$ mm (immagine dell'esempio di copia (a))

操作面板为 7 seg 型时

[前端图像偏移调整]

1. 执行维修模式 034。
用图像质量模式键使“文字复印”点亮。(组 1)
第二纸盒: 用浓度调整键使“exp3”点亮。(模式 3)
第三纸盒: 用浓度调整键使“exp4”点亮。(模式 4)
第四纸盒: 用浓度调整键使“exp5”点亮。(模式 5)
按插印键, 打印测试图案, 然后确认图像质量。<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)
如果纸张边缘与复印示例线 (1) 的间距大于参考值, 则执行以下调整。

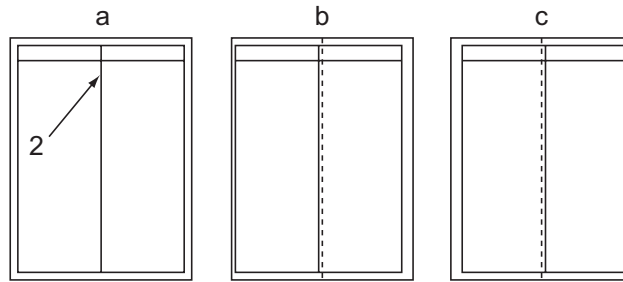
2. b 图像时: 增加调整值。
c 图像时: 减少调整值。
设定范围: $-5.0 - +10.0$
1 单位的变化量: 0.1mm
3. 再次进行试输出图像。
4. 反复操作步骤 2 至 3, 直到纸张中线与复印示例线 (1) 的距离处于参考值范围内。
<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)

操作パネルが 7seg タイプの場合

[先端タイミング調整]

1. メンテナンスモード U034 を実行する。
画質モードキーで“文字”を点灯させる。(グループ 1)
カセット 2 段目: 濃度調整キー“exp3”を点灯させる。(モード 3)
カセット 3 段目: 濃度調整キー“exp4”を点灯させる。(モード 4)
カセット 4 段目: 濃度調整キー“exp5”を点灯させる。(モード 5)
割り込みキーを押して、テストパターンを出力して、画像を確認する。(基準値) 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)
紙の先端とコピーサンプルの線 (1) のずれが基準値外の場合は、次の調整をおこなう。

2. コピーサンプル (b) 画像の場合: 設定値を上げる。
コピーサンプル (c) 画像の場合: 設定値を下げる。
設定範囲: $-5.0 \sim +10.0$
1 ステップの変化量: 0.1mm
3. 再度、テストパターン出力をおこなう。
4. コピーサンプルの線 (1) が基準値内になるまで、手順 2 ~ 3 を繰り返す。
(基準値) 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)



If the operation panel is a 7-segment type:

Adjusting the center line

1. Run maintenance mode 034.
Press the image quality mode key until "Text" and "Photo" are lit. (group 2)
2nd level cassette: Press the exposure key until "exp3" is lit. (mode 3)
3rd level cassette: Press the exposure key until "exp4" is lit. (mode 4)
4th level cassette: Press the exposure key until "exp5" is lit. (mode 5)
Press the Interrupt key to print a test pattern and check the printed image.
<Reference value> Within ± 2.0 mm (copy example (a) image)
If the gap between the center of the paper (dotted line) and the copy example line (2) is larger than the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-7.0 - +10.0$
Changing the value by one moves the leading edge by 0.1 mm.
3. Output the test pattern again.
4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.
<Reference value> Within ± 2.0 mm (copy example (a) image)

Si le panneau de commande est du type à 7 segments:

Réglage de la ligne centrale

1. Exécutez le mode de maintenance 034.
Appuyez sur la touche de mode de qualité d'image jusqu'à ce que "Text" et "Photo" s'allument. (groupe 2)
Cassette de 2ème niveau: Appuyez sur la touche d'exposition jusqu'à ce que "exp3" s'allume. (mode 3)
Cassette de 3ème niveau: Appuyez sur la touche d'exposition jusqu'à ce que "exp4" s'allume. (mode 4)
Cassette de 4ème niveau: Appuyez sur la touche d'exposition jusqu'à ce que "exp5" s'allume. (mode 5)
Appuyez sur la touche d'interruption pour imprimer un motif de test et vérifiez l'image imprimée.
<Valeur de référence> Dans les limites de $\pm 2,0$ mm (image (a) d'un exemple de copie)
Si l'écart entre l'axe du papier (ligne pointillée) et le trait de l'exemple de copie (2) est supérieur à la valeur de référence, effectuez le réglage suivant.

2. Pour l'image dans l'exemple de copie (b) : augmenter la valeur.
Pour l'image dans l'exemple de copie (c) : diminuer la valeur.
Plage de paramètres: $-7,0 - +10,0$
Lorsqu'on change la valeur d'une unité, le bord avant se déplace de 0,1 mm.
3. Produisez à nouveau le motif de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $\pm 2,0$ mm (image (a) d'un exemple de copie)

Si el tablero de controles es de tipo 7 segmentos:

Ajuste de la línea central

1. Active el modo de mantenimiento 034.
Presione la tecla de modo de calidad de imagen hasta que se enciendan "Text" y "Photo". (grupo 2)
Casete de 2º nivel: Presione la tecla de exposición hasta que se encienda "exp3" (modo 3)
Casete de 3º nivel: Presione la tecla de exposición hasta que se encienda "exp4" (modo 4)
Casete de 4º nivel: Presione la tecla de exposición hasta que se encienda "exp5" (modo 5)
Presione la tecla de interrupción para imprimir un patrón de prueba y compruebe la imagen impresa.
<Valor de referencia> Dentro de $\pm 2,0$ mm (imagen de copia de muestra (a))
Si la separación entre el centro del papel (línea de puntos) y la línea de la copia de muestra (2) es mayor que el valor de referencia, realizar el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor.
Gama de ajustes: $-7,0 - +10,0$
Un cambio de valor en una unidad mueve el extremo guía en 0,1 mm.
3. Das Testmuster erneut ausgeben.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $\pm 2,0$ mm (imagen de copia de muestra (a))

Wenn es sich um eine 7-Segment-Bedienungstafel handelt:

Einstellen der Mittellinie

1. Führen Sie den Wartungsmodus 034 aus.
Drücken Sie die Bildqualitätsmodustaste, bis "Text" und "Photo" aufleuchten. (Gruppe 2)
Kassette 2. Stufe: Drücken Sie die Belichtungstaste, bis "exp3" aufleuchtet. (Modus 3)
Kassette 3. Stufe: Drücken Sie die Belichtungstaste, bis "exp4" aufleuchtet. (Modus 4)
Kassette 4. Stufe: Drücken Sie die Belichtungstaste, bis "exp5" aufleuchtet. (Modus 5)
Drücken Sie die Unterbrechungstaste, um ein Testmuster auszudrucken, und überprüfen Sie das Druckbild.
<Bezugswert> Binnen $\pm 2,0$ mm (Kopienmuster (a) Bild)
Falls der Abstand zwischen der Mittellinie des Papiers (Punktierte Linie) und der Kopienmusterlinie (2) größer als der Bezugswert ist, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-7,0 - +10,0$
Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.
3. Das Testmuster erneut ausgeben.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $\pm 2,0$ mm (Kopienmuster (a) Bild)

Se il tipo di pannello operativo è quello a 7 segmenti:

Regolazione della linea di centro

1. 1. Avviare il modo manutenzione 034.
Premere il tasto di modo della qualità dell'immagine finché "Text" e "Photo" non si illuminano. (gruppo 2)
Cassetto del 2° livello: Premere il tasto di esposizione finché "exp3" non si illumina. (modo 3)
Cassetto del 3° livello: Premere il tasto di esposizione finché "exp4" non si illumina. (modo 4)
Cassetto del 4° livello: Premere il tasto di esposizione finché "exp5" non si illumina. (modo 5)
Premere il tasto di interruzione per stampare i modelli di prova e controllare l'immagine stampata.
<Valore di riferimento> Entro ± 2.0 mm (immagine dell'esempio di copia (a))
Se lo scostamento fra il centro della carta (linea tratteggiata) e la linea dell'esempio di copia (2) è maggiore rispetto al valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-7,0 - +10,0$
Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.
3. Eseguire di nuovo i modelli di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro ± 2.0 mm (immagine dell'esempio di copia (a))

操作面板为 7 seg 型时

[中心线的调整]

1. 执行维修模式 034。
用图像质量模式键使“文字复印”和“图片复印”点亮。(组 2)
第二纸盒：用浓度调整键使“exp3”点亮。(模式 3)
第三纸盒：用浓度调整键使“exp4”点亮。(模式 4)
第四纸盒：用浓度调整键使“exp5”点亮。(模式 5)
按打印键，打印测试图案，然后确认图像质量。
按下插入键，在双面模式下试输出图像，进行图像确认。〈参考值〉 ± 2.0 mm 以内 (a 图像为复印示例)
若纸张中线 (虚线) 与复印示例线 (2) 的距离超过参考值范围，则进行进一步的调整。

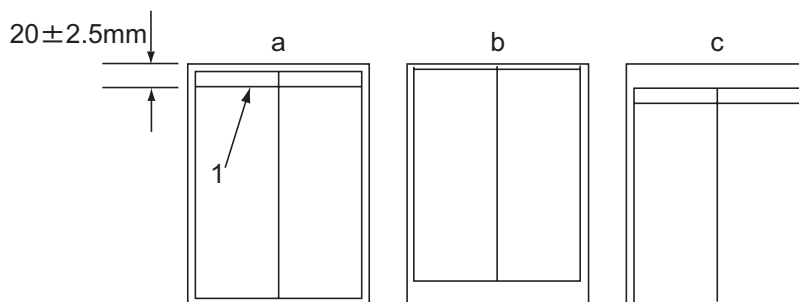
2. b 图像时：增加调整值。
c 图像时：减少调整值。
设定范围 $-7.0 - +10.0$
1 单位的变化量：0.1mm
3. 再次进行试输出图像。
4. 反复操作步骤 2 至 3，直到纸张中线与复印示例线 (1) 的距离处于参考值范围内。
〈参考值〉 ± 2.5 mm 以内 (a 图像为复印示例)

操作パネルが 7seg タイプの場合

[センターライン調整]

1. メンテナンスモード U034 を実行する。
画質モードキーで“文字”及び“写真”を点灯させる。(グループ 2)
カセット 2 段目：濃度調整キー“exp3”を点灯させる。(モード 3)
カセット 3 段目：濃度調整キー“exp4”を点灯させる。(モード 4)
カセット 4 段目：濃度調整キー“exp5”を点灯させる。(モード 5)
割り込みキーを押して、テストパターンを出力して、画像を確認する。〈基準値〉 ± 2.0 mm 以内
(コピーサンプル (a) 画像)
紙のセンター (波線) とコピーサンプルの線 (2) のずれが基準値外の場合は、次の調整をおこなう。

2. コピーサンプル (b) 画像の場合：調整値を上げる。
コピーサンプル (c) 画像の場合：調整値を下げる。
設定範囲: $-7.0 \sim +10.0$
1 ステップの変化量: 0.1mm
3. 再度テストパターン出力をおこなう。
4. コピーサンプルの線 (2) が基準値内になるまで、手順 2 ～ 3 を繰り返す。
(基準値) ± 2.0 mm 以内 (コピーサンプル (a) 画像)



If the operation panel is an LCD type:

Adjusting the leading edge timing

1. Run maintenance mode 034.
Select ADJ, RCL ON TIMING and press the Start key.
2nd level cassette: Select RCL T1.
3rd level cassette: Select RCL T2.
4th level cassette: Select RCL T3.
Press the Interrupt key to output the test pattern in duplex mode and check the image.
<Reference value> Within 20 ± 2.5 (copy example (a) image)
If the gap between the edge of the paper and the copy example line (1) is larger than the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-5.0 - +10.0$
Changing the value by one moves the leading edge by 0.1 mm.
3. Output the test pattern again.
4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.
<Reference value> Within 20 ± 2.5 (copy example (a) image)

Si le panneau de commande est du type LCD:

Réglage de la synchronisation du bord avant

1. Exécutez le mode de maintenance 034.
Sélectionnez ADJ, RCL ON TIMING et appuyez sur la touche de départ copie.
Cassette de 2ème niveau: Sélectionnez RCL T1.
Cassette de 3ème niveau: Sélectionnez RCL T2.
Cassette de 4ème niveau: Sélectionnez RCL T3.
Appuyez sur la touche d'interruption pour imprimer un motif de test et vérifiez l'image imprimée.
<Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)
Si l'écart entre le bord du papier et le trait sur l'exemple de copie (1) est supérieur à la valeur de référence, procédez au réglage suivant.

2. Pour l'image dans l'exemple de copie (b): augmenter la valeur.
Pour l'image dans l'exemple de copie (c): diminuer la valeur.
Plage de ajustés: $-5,0 - +10,0$
Lorsqu'on change la valeur d'une unité, le bord avant se déplace de 0,1 mm.
3. Produisez à nouveau le motif de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie).

Si el tablero de controles es de tipo LCD:

Ajuste de la sincronización del borde superior

1. Active el modo de mantenimiento 034.
Seleccione ADJ, RCL ON TIMING y presione la tecla de inicio.
Casete de 2º nivel: Seleccione RCL T1.
Casete de 3º nivel: Seleccione RCL T2.
Casete de 4º nivel: Seleccione RCL T3.
Presione la tecla de interrupción para imprimir un patrón de prueba y compruebe la imagen impresa.
<Valor de referencia> Binnen $20 \pm 2,5$ mm (Imagen de copia de muestra (a))
Si el espacio entre el borde del papel y la línea de la copia de muestra (1) es mayor que el valor de referencia, realice el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor.
Gama de ajustes: $-5,0 - +10,0$
Un cambio de valor en una unidad mueve el extremo guía en 0,1 mm.
3. Haga salir nuevamente el patrón de prueba.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a))

Wenn es sich um eine LCD-Bedienungstafel handelt:

Einstellen des Vorderkanten-Timings

1. Führen Sie den Wartungsmodus 034 aus.
Wählen Sie ADJ, RCL ON TIMING, und drücken Sie die Starttaste.
Kassette 2. Stufe: Wählen Sie RCL T1.
Kassette 3. Stufe: Wählen Sie RCL T2.
Kassette 4. Stufe: Wählen Sie RCL T3.
Drücken Sie die Unterbrechungstaste, um ein Testmuster auszudrucken, und überprüfen Sie das Druckbild. <Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild)
Falls der Abstand zwischen der Papierkante und der Kopienmusterlinie (1) größer als der Bezugswert ist, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-5,0 - +10,0$
Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.
3. Das Testmuster erneut ausgeben.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild)

Se il tipo di pannello operativo è quello LCD:

Regolazione della sincronizzazione del bordo principale

1. Avviare il modo manutenzione 034.
Selezionare ADJ, RCL ON TIMING e premere il tasto di avvio.
Cassetto del 2° livello: Selezionare RCL T1.
Cassetto del 3° livello: Selezionare RCL T2.
Cassetto del 4° livello: Selezionare RCL T3.
Premere il tasto di interruzione per stampare i modelli di prova e controllare l'immagine stampata.
<Valore di riferimento> Entro $20 \pm 2,5$ mm (immagine dell'esempio di copia (a))
Se lo scostamento tra il bordo della carta e la linea dell'esempio di copia (1) è maggiore rispetto al valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-5,0 - +10,0$
Cambiando il valore di una unità si sposta il bordo di entrata di 0,1 mm.
3. Eseguire di nuovo i modelli di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro $20 \pm 2,5$ mm (immagine dell'esempio di copia (a))

操作面板为LCD型时

[前端图像偏移调整]

1. 执行维修模式 034。
选择 ADJ, RCL ON TIMING 按下开始键。
第二纸盒: RCL T1
第三纸盒: RCL T2
第四纸盒: RCL T3
按插印键, 打印测试图案, 然后确认图像质量。<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)
若纸张中线与复印示例线 (1) 的距离超过参考值范围, 则进行进一步的调整。

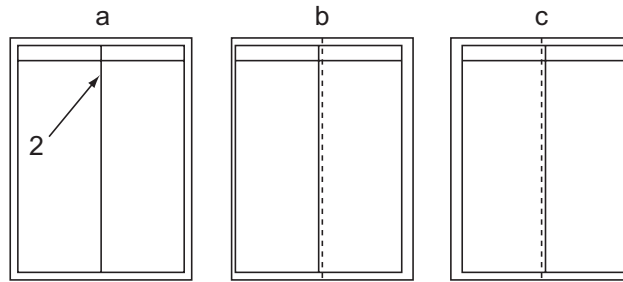
2. b 图像时: 增加调整值。
c 图像时: 减少调整值。
设定范围: $-5.0 - +10.0$
1 单位的变化量: 0.1mm
3. 再次进行试输出图像。
4. 反复操作步骤 2 至 3, 直到纸张中线与复印示例线 (1) 的距离处于参考值范围内。
<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)

操作パネルがLCDタイプの場合

[先端タイミング調整]

1. メンテナンスモード U034 を実行する。
ADJ, RCL ON TIMING を選択し、スタートキーを押す。
カセット 2 段目: RCL T1 を選択する。
カセット 3 段目: RCL T2 を選択する。
カセット 4 段目: RCL T3 を選択する。
割り込みキーを押し、テストパターンを出力して、画像を確認する。<基準値> 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)
紙の先端とコピーサンプルの線 (1) ずれが基準値外の場合は、次の調整を行う。

2. コピーサンプル (b) 画像の場合: 調整値を上げる。
コピーサンプル (c) 画像の場合: 調整値を下げる。
設定範囲: $-5.0 \sim +10.0$
1 ステップの変化量: 0.1mm
3. 再度テストパターン出力をおこなう。
4. コピーサンプルの線 (1) が基準値内になるまで、手順 2 ~ 3 を繰り返す。
<基準値> 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)



If the operation panel is an LCD type:

Adjusting the center line

1. Run maintenance mode 034.
Select ADJ, LSU OUT TIMING and press the Start key.
2nd level cassette: Select LSU T1.
3rd level cassette: Select LSU T2.
4nd level cassette: Select LSU T3.
Press the Interrupt key to print a test pattern and check the printed image.
<Reference value> Within ± 2.0 mm (copy example (a) image)
If the gap between the center of the paper (dotted line) and the copy example line

- (2) is larger than the reference value, perform the following adjustment.
2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-7.0 - +10.0$
Changing the value by one moves the center line by 0.1 mm.
3. Output the test pattern again.
4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.
<Reference value> Within ± 2.0 mm (copy example (a))

Si le panneau de commande est du type LCD:

Réglage de la ligne centrale

1. 1. Exécutez le mode de maintenance 034.
Sélectionnez ADJ, LSU OUT TIMING et appuyez sur la touche de départ copie.
Cassette de 2ème niveau: Sélectionnez LSU T1.
Cassette de 3ème niveau: Sélectionnez LSU T2.
Cassette de 4ème niveau: Sélectionnez LSU T3.
Appuyez sur la touche d'interruption pour imprimer un motif de test et vérifiez l'image imprimée.
<Valeur de référence> Dans les limites de $\pm 2,0$ mm (image (a) d'un exemple de copie)
Si l'écart entre l'axe du papier (ligne pointillée) et le trait de l'exemple de copie (2) est supérieur à la valeur de référence, effectuez le réglage suivant.

2. Pour l'image dans l'exemple de copie (b): augmenter la valeur.
Pour l'image dans l'exemple de copie (c): diminuer la valeur.
Plage de paramètres: $-7,0 - +10,0$
Lorsqu'on change la valeur d'une unité, la ligne centrale se déplace de 0,1 mm.
3. Produisez à nouveau le motif de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $\pm 2,0$ mm (image (a) d'un exemple de copie).

Si el tablero de controles es de tipo LCD:

Ajuste de la línea central

1. Active el modo de mantenimiento 034.
Seleccione ADJ, LSU OUT TIMING y presione la tecla de inicio.
Casete de 2º nivel: Seleccione LSU T1.
Casete de 3º nivel: Seleccione LSU T2.
Casete de 4º nivel: Seleccione LSU T3.
Presione la tecla de interrupción para imprimir un patrón de prueba y compruebe la imagen impresa.
<Valor de referencia> Dentro de $\pm 2,0$ mm (imagen de copia de muestra (a))
Si la separación entre el centro del papel (línea de puntos) y la línea de la copia de muestra (2) es mayor que el valor de referencia, realizar el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor.
Gama de ajustes: $-7,0 - +10,0$
Un cambio de valor en una unidad mueve la línea de centro en 0,1 mm.
3. Haga salir nuevamente el patrón de prueba.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $\pm 2,0$ mm (imagen de copia de muestra (a))

Wenn es sich um eine LCD-Bedienungstafel handelt:

Einstellen der Mittellinie

1. Führen Sie den Wartungsmodus 034 aus.
Wählen Sie ADJ, LSU OUT TIMING, und drücken Sie die Starttaste.
Kassette 2. Stufe: Wählen Sie LSU T1.
Kassette 3. Stufe: Wählen Sie LSU T2.
Kassette 4. Stufe: Wählen Sie LSU T3.
Drücken Sie die Unterbrechungstaste, um ein Testmuster auszudrucken, und überprüfen Sie das Druckbild. <Bezugswert> Binnen $\pm 2,0$ mm (Kopienmuster (a) Bild)
Falls der Abstand zwischen der Mittellinie des Papiers (Punktierte Linie) und der Kopienmusterlinie (2) größer als der Bezugswert ist, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-7,0 - +10,0$
Durch Ändern des Werts um eins wird die Mittellinie um 0,1 mm verschoben.
3. Das Testmuster erneut ausgeben.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $\pm 2,0$ mm (Kopienmuster (a) Bild).

Se il tipo di pannello operativo è quello LCD:

Regolazione della linea di centro

1. 1. Avviare il modo manutenzione 034.
Selezionare ADJ, LSU OUT TIMING e premere il tasto di avvio.
Cassetto del 2° livello: Selezionare LSU T1.
Cassetto del 3° livello: Selezionare LSU T2.
Cassetto del 4° livello: Selezionare LSU T3.
Premere il tasto di interruzione per stampare i modelli di prova e controllare l'immagine stampata.
<Valore di riferimento> Entro ± 2.0 mm (immagine dell'esempio di copia (a))
Se lo scostamento fra il centro della carta (linea tratteggiata) e la linea dell'esempio di copia (2) è maggiore rispetto al valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-7.0 - +10.0$
Cambiando il valore di una unità si sposta la linea centrale di 0,1 mm.
3. Eseguire di nuovo i modelli di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro ± 2.0 mm (immagine dell'esempio di copia (a))

操作面板为 LCD 型时

[中心线的调整]

1. 执行维修模式 034。
选择 ADJ, LSU OUT TIMING 按下开始键。
第二纸盒: LSU T1。
第三纸盒: LSU T2。
第四纸盒: LSU T3。
按插印键, 打印测试图案, 然后确认图像质量。<参考值> ± 2.0 mm 以内 (a 图像为复印示例)
若纸张中线 (虚线) 与复印示例线 (2) 的距离超过参考值范围, 则进行进一步的调整。

2. b 图像时: 增加调整值。
c 图像时: 减少调整值。
设定范围: $-7.0 \sim +10.0$
1 单位的变化量: 0.1mm
3. 再次进行试输出图像。
4. 反复操作步骤 2 至 3, 直到纸张中线与复印示例线 (1) 的距离处于参考值范围内。
<参考值> ± 2.0 mm 以内 (a 图像为复印示例)

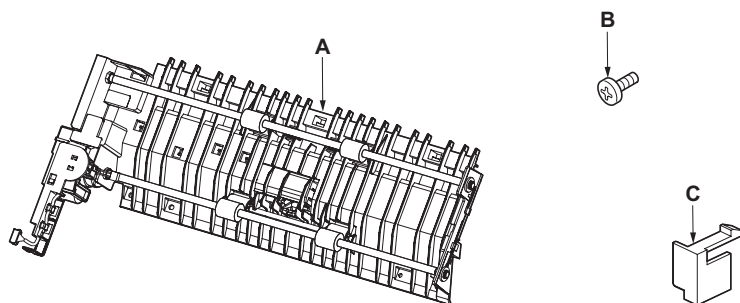
操作パネルが LCD タイプの場合

[センターライン調整]

1. メンテナンスモード U034 を実行する。
ADJ, LSU OUT TIMING を選択し、スタートキーを押す。
カセット 2 段目: LSU T1 を選択する。
カセット 3 段目: LSU T2 を選択する。
カセット 4 段目: LSU T3 を選択する。
割り込みキーを押し、テストパターンを出力して、画像を確認する。
(基準値) ± 2.0 mm 以内 (コピーサンプル (a) 画像)
紙のセンター (波線) とコピーサンプルの線 (2) のずれが基準外の場合は、次の調整を行う。

2. コピーサンプル (b) 画像の場合: 調整値を上げる。
コピーサンプル (c) 画像の場合: 調整値を下げる。
設定範囲: $-7.0 \sim +10.0$
1 ステップの変化量: 0.1mm
3. 再度テストパターン出力をおこなう。
4. コピーサンプルの線 (2) が基準値内になるまで、手順 2 ~ 3 を繰り返す。
(基準値) ± 2.0 mm 以内 (コピーサンプル (a) 画像)

INSTALLATION GUIDE FOR DUPLEX UNIT



English

Supplied parts

A Duplex unit.....	1
B M3 x 08 screw	2
C Wire guide	1

Be sure to remove any tape and/or cushioning material from supplied parts.

Procedure

Be sure to turn off the main switch of the main body of the copier or MFP and disconnect the power plug of the main body from the wall outlet before starting to install the Duplex Unit.

Français

Pièces fournies

A Unité recto-verso	1
B Vis M3 x 08	2
C Guide câble	1

Veillez à retirer les morceaux de bande adhésive et/ou les matériaux de rembourrage des pièces fournies.

Procédure

Veillez à bien mettre l'interrupteur principal du corps principal du copieur ou du MFP hors tension et à débrancher la fiche d'alimentation de la prise murale avant de commencer l'installation de l'unité recto-verso.

Español

Partes suministradas

A Unidad dúplex.....	1
B Tornillo M3 x 08	2
C Guía para el cable	1

Asegúrese de despegar todas las cintas y/o material amortiguador de las partes suministradas.

Procedimiento

Asegúrese de apagar el interruptor principal del cuerpo principal de la copiadora o MFP y de desconectar el enchufe del receptáculo de pared antes de empezar a instalar la Unidad Dúplex.

Deutsch

Gelieferte Teile

A Duplex-Einheit	1
B M3 x 08 Schraube	2
C Kabelführung	1

Entfernen Sie Klebeband und/oder Dämpfungsmaterial vollständig von den mitgelieferten Teilen.

Verfahren

Schalten Sie unbedingt den Hauptschalter der Haupteinheit des Kopierers oder MFP aus, und ziehen Sie den Netzstecker von der Netzsteckdose ab, bevor Sie mit der Installation der Duplex-Einheit beginnen.

Italiano

Parti di fornitura

A Unità Duplex	1
B Vite M3 x 08.....	2
C Guida cavi.....	1

Accertarsi di rimuovere tutti i nastri adesivi e/o il materiale di imbottitura dalle parti fornite.

Procedura

Assicurarsi di spegnere l'interruttore principale del corpo principale della copiatrice o dell'MFP e di disconnettere il cordone di alimentazione dalla presa a muro prima di dare inizio alla procedura d'installazione dell'Unità Duplex.

简体中文

附属品

A 双面器.....	1
B M3 × 08 螺钉	2
C 电线导管	1

如果附属品上带有固定胶带、缓冲材料时务必揭下。

安装步骤

安装双面器时，必须先关闭复印机或MFP本体的主电源开关，拔下本体电源插头后，才能进行的操作。

日本語

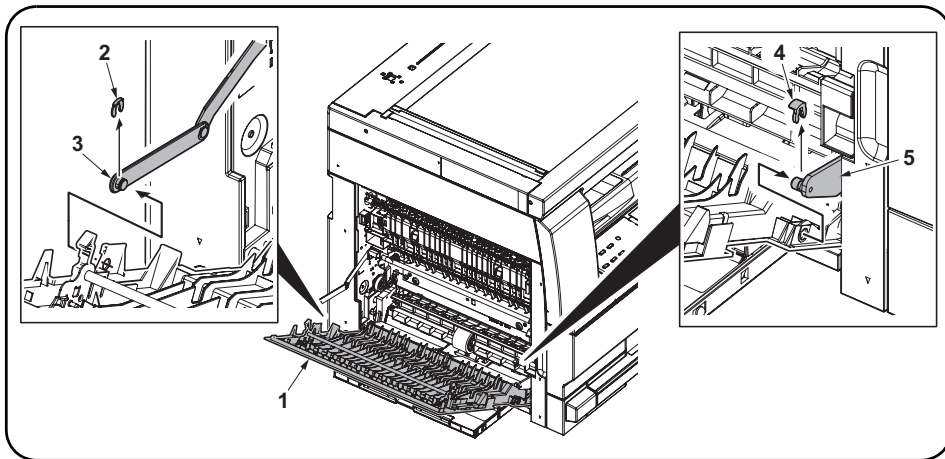
同梱品

A 両面ユニット.....	1
B ビス M3 × 08	2
C 電線ガイド.....	1

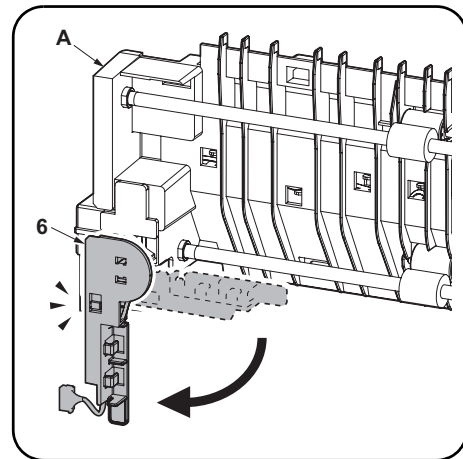
同梱品に固定テープ、緩衝材が付いている場合は必ず取り外すこと。

取付手順

両面ユニットを取り付ける際は、必ず複写機またはMFP(プリンタ標準機)本体のメインスイッチをOFFにし、本体の電源プラグを抜いてから作業をおこなうこと。



1. Open the left cover (1).
2. Remove the stop ring (2) and the strap (3) from the rear side.
3. Remove the stop ring (4) and strap (5) from the front side.
4. Open the left cover (1) until it is put horizontally.



5. Turn the wire guide section (6) on the duplex unit (A) in the direction of the arrow until you hear a click.

1. Ouvrez le couvercle gauche (1).
2. Retirez la bague d'arrêt (2) et la courroie (3) du côté arrière.
3. Déposez la bague d'arrêt (4) et la courroie (5) sur le côté avant.
4. Ouvrez le couvercle gauche (1) jusqu'à ce qu'il soit placé horizontalement.

5. Faites tourner la partie guide câble (6) de l'unité recto-verso (A) dans la direction de la flèche jusqu'au clic.

1. Abra la cubierta izquierda (1).
2. Desmonte el anillo de tope (2) y la correa (3) del lado trasero.
3. Quitar el anillo de tope (4) y la correa (5) del lado delantero.
4. Abra la cubierta izquierda (1) hasta que lo ponga horizontalmente.

5. Girar, en la dirección de la flecha, la sección de la guía para el cable (6) en la unidad dúplex (A), hasta escuchar un clic.

1. Aprire il coperchio sinistro (1).
2. Rimuovere l'anello di bloccaggio (2) e la cinghietta (3) dal lato posteriore.
3. Entfernen Sie den Anschlagring (4) und den Riemen (5) von der Vorderseite.
4. Aprire il coperchio sinistro (1) finché non è in posizione orizzontale.

5. Drehen Sie das Kabelführungsteil (6) an der Duplex-Einheit (A) in der Pfeilrichtung, bis es hörbar einrastet.

1. Aprire il coperchio sinistro (1).
2. Rimuovere l'anello di bloccaggio (2) e la cinghietta (3) dal lato posteriore.
3. Rimuovere l'anello di bloccaggio (4) e la cinghietta (5) dal lato fronta.
4. Aprire il coperchio sinistro (1) finché non è in posizione orizzontale.

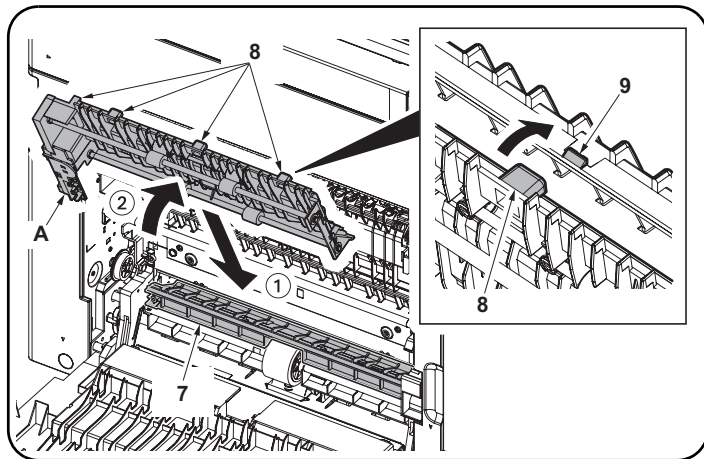
5. Ruotare la sezione di guida cavi (6) sull'unità Duplex (A) nella direzione della freccia, finché non si sente un clic.

1. 打开左盖 (1)。
2. 卸下后侧的止动环 (2) 和紧固夹件 (3)。
3. 卸下前侧的止动环 (4) 和紧固夹件 (5)。
4. 打开左盖 (1) 至水平状态。

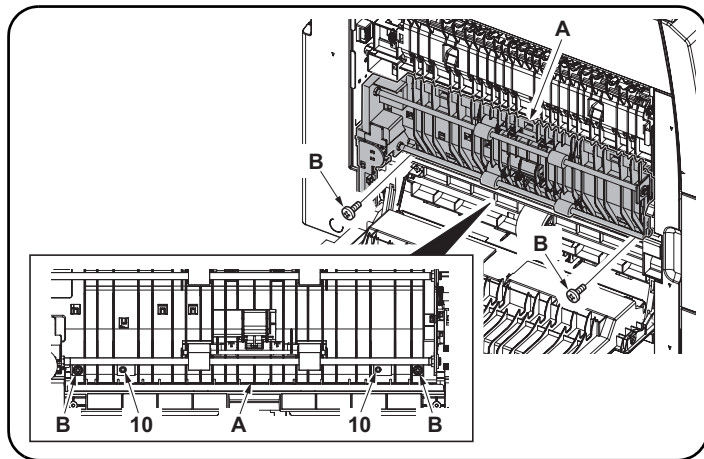
5. 将双面器 (A) 的电线导管部分 (6) 朝箭头方向旋转, 直至听到喀嗒声。

1. 左カバー (1) を開く。
2. 後側のストップリング (2) およびストラップ (3) を取り外す。
3. 前側のストップリング (4) およびストッパ (5) を取り外す。
4. 左カバー (1) を水平になるまで開く。

5. 両面ユニット (A) の電線ガイド部分 (6) を矢印方向にカチッと音がするまで回す。



6. Mount the duplex unit (A) on the conveying guide (7) and push the upper section in the direction of the arrow so that the 4 latches (8) fit over the pawls (9).



7. Fit the projections (10) into the duplex unit (A).
8. Secure the duplex unit (A) with two M3 x 08 screws (B).

6. Montez l'unité recto-verso (A) sur le guide d'entraînement (7) et poussez la partie supérieure dans la direction de la flèche de sorte que les 4 verrous (8) s'encastrent sur les cliquets (9).

7. Insérez les saillies (10) dans l'unité recto-verso (A).
8. Fixez l'unité recto-verso (A) avec les deux vis M3 x 08 (B).

6. Montar la unidad dúplex (A) en la guía de transporte (7) y empujar la porción superior, en la dirección de la flecha, de forma tal que los 4 pestillos (8) encajen sobre los trinquetes (9).

7. Instalar los resaltos (10) en la unidad dúplex (A).
8. Asegure la unidad duplex (A) con los dos tornillos M3 x 08 (B).

6. Montieren Sie die Duplex-Einheit (A) an der Förderführung (7), und drücken Sie den oberen Teil in der Pfeilrichtung, so dass die 4 Rasten (8) über die Klauen (9) greifen.

7. Setzen Sie die Vorsprünge (10) in die Duplex-Einheit (A) ein.
8. Die Duplex-Einheit (A) mit den zwei Schrauben M3 x 08 (B) befestigen.

6. Montare l'unità Duplex (A) sulla guida di trasporto (7) e spingere la sezione superiore nella direzione della freccia, in modo che 4 fermi (8) si inseriscano sui nottolini (9).

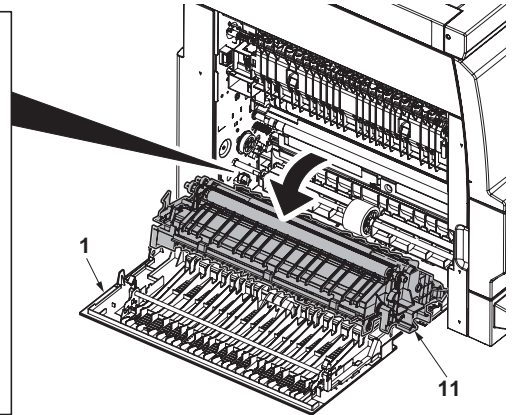
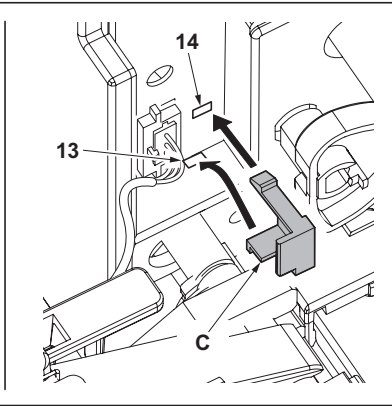
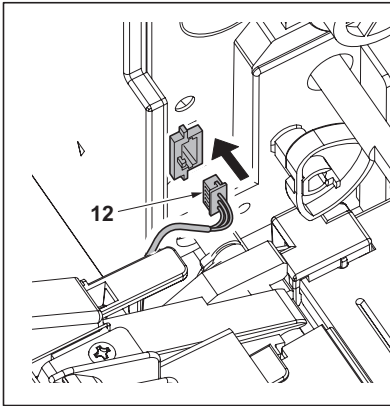
7. Inserire le sporgenze (10) nell'unità Duplex (A).
8. Fissare l'unità duplex (A) a mezzo delle due viti M3 x 08 (B).

6. 安装传输导板(7)上的双面器(A)时,沿箭头方向推传输导板上部,使4个卡扣(8)与卡爪(9)啮合。

7. 将凸出部分(10)安装至双面器中(A)。
8. 用2个 M3 × 08 螺钉 (B) 紧固双面器 (A)。

6. 両面ユニット (A) を搬送ガイド (7) に載せ、上部を矢印方向へ押して、はめ込み部 (8) 4箇所を爪 (9) にはめ込む。

7. ボス (10) を両面ユニット (A) にはめ込む。
8. ビス M3 × 08 (B) 2本で両面ユニット (A) を固定する。



9. Open the conveyer unit (11) and connect the connector (12) of the duplex unit (A) to the main body.
10. Slot the wire guide (C) into latch (13) and then latch (14) on the main unit.
11. Reattach the removed parts to their original positions.
12. Close the conveyer unit (11) and left cover (1).

Checking the operation

Connect the power plug of the machine to the wall outlet and turn the main power switch on.

9. Ouvrez l'unité d'entraînement (11) et connectez le connecteur (12) de l'unité recto-verso (A) au corps principal.
10. Glissez le guide câble (C) dans le verrou (13) puis dans le verrou (14) de l'unité principale.
11. Remettez les pièces enlevées à leur position d'origine.
12. Fermez l'unité d'entraînement (11) et le couvercle gauche (1).

Vérification du fonctionnement

Insérer la fiche d'alimentation de la machine dans la prise murale et mettre la machine sous tension.

9. Abra la unidad transportadora (11) y conecte el conector (12) de la unidad duplex (A) en el cuerpo principal.
10. Encajar la guía para el cable (C) en el pestillo (13) y, a continuación, en el pestillo (14) de la unidad principal.
11. Vuelva a instalar las piezas desmontadas en sus posiciones originales.
12. Cerrar la unidad transportadora (11) y la cubierta izquierda (1).

Verificación del funcionamiento

Conecte el enchufe eléctrico de la máquina en un tomacorriente de la pared y conecte el interruptor principal.

9. Die Fördereinheit öffnen (11), und den Steckverbinder (12) der Duplex-Einheit (A) an die Haupteinheit anschließen.
10. Schieben Sie die Kabelführung (C) in die Raste (13) und dann die Raste (14) an der Haupteinheit.
11. Die entfernten Teile wieder an ihren ursprünglichen Positionen anbringen.
12. Schließen Sie die Fördereinheit (11) und die linke Abdeckung (1).

Überprüfen des Betriebs

Den Netzstecker der Maschine in die Steckdose stecken und den Betriebsschalter einschalten.

9. Aprire l'unità convogliatore (11) e collegare il connettore (12) dell'unità duplex (A) al corpo principale.
10. Inserire la guida cavi (C) nel fermo (13), e quindi il fermo (14) sull'unità principale.
11. Rimontare le parti rimosse nelle loro posizioni originali.
12. Chiudere l'unità convogliatore (11) e il coperchio sinistro (1).

Verifica di funzionamento

Collegare la spina del cavo di alimentazione della macchina alla presa a muro della rete elettrica e accendere l'interruttore principale di alimentazione.

9. 打开输送装置 (11)，将双面器 (A) 的插头 (12) 连接在主体上。
10. 将电线导管 (C) 先后插入主机上的卡扣 (13) 和 (14) 中。
11. 卸下的部件按原样装上。
12. 关闭输送装置 (11) 及左盖 (1)。

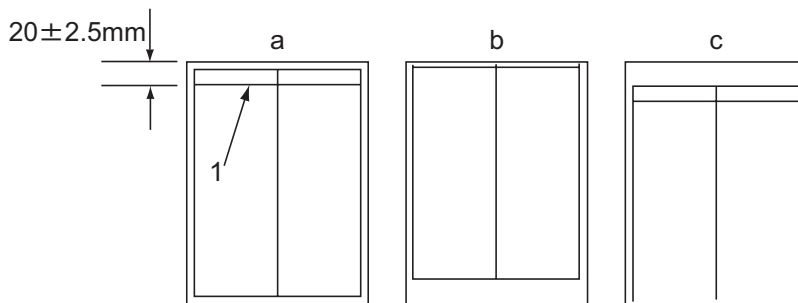
操作确认

将机器主机上的电源插头插入插座中，打开主电源开关。

9. 搬送ユニット (11) を開き、両面ユニット (A) のコネクタ (12) を本体に接続する。
10. 電線ガイド (C) を本体のはめ込み部 (13)、(14) の順にはめ込む。
11. 取り外した部品を元通りに取り付ける。
12. 搬送ユニット (11) および左カバー (1) を閉じる。

動作確認

機械本体の電源プラグをコンセントに差し込み、メインスイッチを ON にする。



If the operation panel is a 7-segment type:

Adjusting the leading edge timing

1. Run maintenance mode 034.

Press the image quality mode key until "Text" is lit. (group 1)

Press the exposure key until "exp1" is flashing. (mode 6)

Press the Interrupt key to output the test pattern in duplex mode and check the image. <Reference value> Within 20 ± 2.5 mm (copy example (a) image)

If the gap exceeds the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.

For the image in copy example (c): Decrease the value.

Setting range: $-5.0 \sim +10.0$

Changing the value by one moves the leading edge by 0.1 mm.

3. Make a test copy again.

4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.

<Reference value> Within 20 ± 2.5 mm (copy example (a) image)

Si le panneau de commande est du type à 7 segments:

Réglage de la synchronisation du bord avant

1. Exécutez le mode de maintenance 034.

Appuyez sur la touche de mode de qualité d'image jusqu'à ce que "Text" s'allume. (groupe 1)

Appuyez sur la touche d'exposition jusqu'à ce que "exp1" clignote. (mode 6)

Appuyez sur la touche d'interruption pour produire le motif de test en mode recto-verso et vérifiez l'image. <Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)

Si l'écart entre l'axe du papier (ligne pointillée) et le trait de l'exemple de copie (2) est supérieur à la valeur de référence, effectuez le réglage suivant.

2. Pour l'image dans l'exemple de copie (b) : augmenter la valeur.

Pour l'image dans l'exemple de copie (c) : diminuer la valeur.

Plage de paramètres: $-5,0 - +10,0$

Lorsqu'on change la valeur d'une unité, le bord avant se déplace de 0,1 mm.

3. Effectuez à nouveau une copie de test.

4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.

<Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)

Si el tablero de controles es de tipo 7 segmentos:

Ajuste de la sincronización del borde superior

1. Active el modo de mantenimiento 034.

Presione la tecla de modo de calidad de imagen hasta que se encienda "Text" (grupo 1)

Presione la tecla de exposición hasta que destelle "exp1" (modo 6)

Presionar la tecla de interrupción para imprimir el patrón de prueba en modo dúplex y controlar la imagen. <Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a))

Si la separación supera el valor de referencia, realizar el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.

Para la imagen en la copia de muestra (c): disminuir el valor.

Gama de ajustes: $-5,0 - +10,0$

Un cambio de valor en una unidad mueve el extremo guía en 0,1 mm.

3. Vuelva a hacer una copia de ensayo.

4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.

<Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a)).

Wenn es sich um eine 7-Segment-Bedienungstafel handelt:

Einstellen des Vorderkanten-Timings

1. Führen Sie den Wartungsmodus 034 aus.

Drücken Sie die Bildqualitätsmodustaste, bis "Text" aufleuchtet. (Gruppe 1)

Drücken Sie die Belichtungstaste, bis "exp1" blinkt. (Modus 6)

Drücken Sie die Unterbrechungstaste, um das Testmuster im Duplexmodus auszugeben, und überprüfen Sie das Bild. <Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild).

Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.

Für das Bild im Kopienmuster (c): Den Wert verringern.

Einstellbereich: $-5,0 - +10,0$

Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.

3. Machen Sie eine erneute Probekopie.

4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.

<Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild).

Se il tipo di pannello operativo è quello a 7 segmenti:

Regolazione della sincronizzazione del bordo principale

1. Avviare il modo manutenzione 034.

Premere il tasto di modo della qualità dell'immagine finché "Text" non si illumina. (gruppo 1)

Premere il tasto di esposizione finché "exp1" inizia a lampeggiare. (modo 6)

Premere il tasto di interruzione per eseguire i modelli di prova nel modo duplex e controllare l'immagine. <Valore di riferimento> Entro $20 \pm 2,5$ mm (immagine dell'esempio di copia (a))

Se lo scostamento supera il valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.

Per l'immagine nell'esempio di copia (c): ridurre il valore.

Gamma di impostazione: $-5,0 - +10,0$

Cambiando il valore di una unità si sposta il bordo di entrata di 0.1 mm.

3. Fare di nuovo una copia di prova.

4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.

<Valore di riferimento> Entro $20 \pm 2,5$ mm (immagine dell'esempio di copia (a))

操作面板为 7 seg 型时

[前端图像偏移调整]

1. 执行维修模式034。

用图像质量模式键使“文字复印”点亮。(组1)

用浓度调整键使“exp1”闪烁。(模式6)

按下插入键，在双面模式下试输出图像，进行图像确认。

<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)

若纸张中线与复印示例线(1)的距离超过参考值范围，则进行进一步的调整。

2. b图像时：增加调整值。

c图像时：减少调整值。

设定范围： $-5.0 \sim +10.0$

1单位的变化量：0.1mm

3. 再次进行试复印。

4. 反复操作步骤 2 至 3，直到纸张中线与复印示例线(1)的距离处于参考值范围内。

<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)

操作パネルが 7seg タイプの場合

[先端タイミング調整]

1. メンテナンスモード U034 を実行する。

画質モードキーで“文字”を点灯させる。(グループ 1)

濃度調整キーで“exp1”を点滅させる。(モード 6)

割り込みキーを押し、両面モードでテストパターンを出力して、画像を確認する。(基準値) 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)

ずれが基準値外の場合は、次の調整をおこなう。

2. コピーサンプル (b) 画像の場合：設定値を上げる。

コピーサンプル (c) 画像の場合：調整値を下げる。

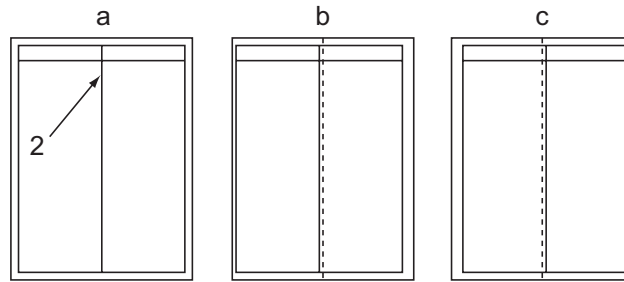
設定範囲： $-5.0 \sim +10.0$

1 ステップの変化量：0.1mm

3. 再度テストパターン出力を行う。

4. コピーサンプルの線 (1) が基準値内になるまで、手順 2 ～ 3 を繰り返す。

(基準値) 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)



If the operation panel is a 7-segment type:

Adjusting the center line

1. Run maintenance mode 034.
Press the image quality mode key until "Text" and "Photo" are lit. (group 2)
Press the exposure key until "exp1" is flashing. (mode 6)
Press the Interrupt key to output the test pattern in duplex mode and check the image. <Reference value> Within ± 3.0 mm (copy example (a) image)
If the gap between the center of the paper (dotted line) and the copy example line (2) is larger than the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-7.0 - +10.0$
Changing the value by one moves the leading edge by 0.1 mm.
3. Make a test copy again.
4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.
<Reference value> Within ± 3.0 mm (copy example (a) image)

Si le panneau de commande est du type à 7 segments:

Réglage de la ligne centrale

1. Exécutez le mode de maintenance 034.
Appuyez sur la touche de mode de qualité d'image jusqu'à ce que "Text" et "Photo" s'allument. (groupe 2)
Appuyez sur la touche d'exposition jusqu'à ce que "exp1" clignote. (mode 6)
Appuyez sur la touche d'interruption pour produire le motif de test en mode recto-verso et vérifiez l'image. <Valeur de référence> Dans les limites de $\pm 3,0$ mm (image (a) d'un exemple de copie)
Si l'écart entre l'axe du papier (ligne pointillée) et le trait de l'exemple de copie (2) est supérieur à la valeur de référence, effectuez le réglage suivant.

2. Pour l'image dans l'exemple de copie (b) : augmenter la valeur.
Pour l'image dans l'exemple de copie (c) : diminuer la valeur.
Plage de paramètres: $-7,0 - +10,0$
Lorsqu'on change la valeur d'une unité, le bord avant se déplace de 0,1 mm.
3. Effectuez à nouveau une copie de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $\pm 3,0$ mm (image (a) d'un exemple de copie).

Si el tablero de controles es de tipo 7 segmentos:

Ajuste de la línea central

1. Active el modo de mantenimiento 034.
Presione la tecla de modo de calidad de imagen hasta que se enciendan "Text" y "Photo". (grupo 2)
Presione la tecla de exposición hasta que destelle "exp1" (modo 6)
Presionar la tecla de interrupción para imprimir el patrón de prueba en modo dúplex y controlar la imagen. <Valor de referencia> Dentro de $\pm 3,0$ (imagen de copia de muestra (a))
Si la separación supera el valor de referencia, realizar el siguiente ajust.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor.
Gama de ajustes: $-7,0 - +10,0$
Un cambio de valor en una unidad mueve el extremo guía en 0,1 mm.
3. Vuelva a hacer una copia de ensayo.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $\pm 3,0$ mm (imagen de copia de muestra (a))

Wenn es sich um eine 7-Segment-Bedienungstafel handelt:

Einstellen der Mittellinie

1. Führen Sie den Wartungsmodus 034 aus.
Drücken Sie die Bildqualitätsmodustaste, bis "Text" und "Photo" aufleuchten. (Gruppe 2)
Drücken Sie die Belichtungstaste, bis "exp1" blinkt. (Modus 6)
Drücken Sie die Unterbrechungstaste, um das Testmuster im Duplexmodus auszugeben, und überprüfen Sie das Bild. <Bezugswert> Binnen $\pm 3,0$ mm (Kopienmuster (a) Bild).
Falls der Abstand zwischen der Mittellinie des Papiers (Punktierte Linie) und der Kopienmusterlinie (2) größer als der Bezugswert ist, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-7,0 - +10,0$
Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.
3. Machen Sie eine erneute Probekopie.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $\pm 3,0$ mm (Kopienmuster (a) Bild).

Se il tipo di pannello operativo è quello a 7 segmenti:

Regolazione della linea di centro

1. Avviare il modo manutenzione 034.
Premere il tasto di modo della qualità dell'immagine finché "Text" e "Photo" non si illuminano. (gruppo 2)
Premere il tasto di esposizione finché "exp1" inizia a lampeggiare. (modo 6)
Premere il tasto di interruzione per eseguire i modelli di prova nel modo duplex e controllare l'immagine. <Valore di riferimento> Entro ± 3.0 mm (immagine dell'esempio di copia (a))
Se lo scostamento supera il valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-7.0 - +10.0$
Cambiando il valore di una unità si sposta il bordo di entrata di 0.1 mm.
3. Fare di nuovo una copia di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro ± 3.0 mm (immagine dell'esempio di copia (a))

操作面板为 7 seg 型时

[中心线的调整]

1. 执行维修模式034。
用图质模式键使“文字复印”和“图片复印”点亮。(组2)
用浓度调整键使“exp1”闪烁。(模式6)
按下插入键，在双面模式下试输出图像，进行图像确认。
<参考值> ± 3.0 mm 以内 (a 图像为复印示例)
若纸张中线与复印示例线(1)的距离超过参考值范围，则进行进一步的调整。

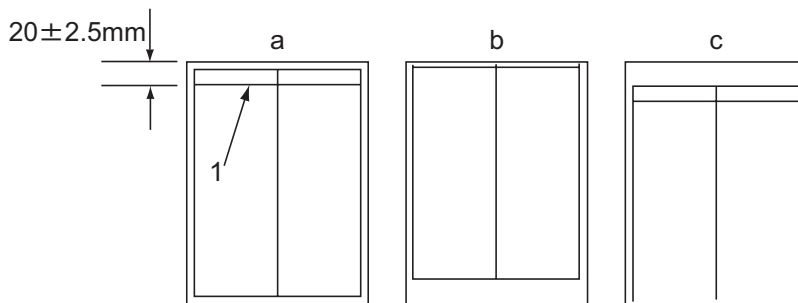
2. b 图像时：增加调整值。
c 图像时：减少调整值。
设定范围： $-7.0 - +10.0$
1 单位的变化量：0.1mm
3. 再次进行试复印。
4. 反复操作步骤 2 至 3，直到纸张中线与复印示例线(1)的距离处于参考值范围内。
<参考值> ± 3.0 mm 以内 (a 图像为复印示例)

操作パネルが 7seg タイプの場合

[センターライン調整]

1. メンテナンスモード U034 を実行する。
画質モードキーで“文字”および“写真”を点灯させる。(グループ 2)
濃度調整キーで“exp1”を点滅させる。(モード 6)
割り込みキーを押し、両面モードでテストパターンを出力して、画像を確認する。
<基準値> ± 3.0 mm 以内 (コピーサンプル (a) 画像)
紙のセンター(破線)とコピーサンプルの線 (2) のずれが基準値外の場合は、次の調整をおこなう。

2. コピーサンプル (b) 画像の場合：調整値を上げる。
コピーサンプル (c) 画像の場合：調整値を下げる。
設定範囲： $-7.0 - +10.0$
1 ステップの変化量：0.1mm
3. 再度テストパターン出力を行う。
4. コピーサンプルの線 (2) が基準値内になるまで、手順 2 ～ 3 を繰り返す。
<基準値> ± 3.0 mm 以内 (コピーサンプル (a) 画像)



If the operation panel is an LCD type:

Adjusting the leading edge timing

1. Run maintenance mode 034.
Select ADJ, RCL ON TIMING and press the Start key.
Select RCL DUP.
Press the Interrupt key to output the test pattern in duplex mode and check the image. <Reference value> Within 20 ± 2.5 mm (copy example (a) image)
If the gap exceeds the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-5.0 - +10.0$
Changing the value by one moves the leading edge by 0.1 mm.
3. Output the test pattern again.
4. Repeat steps 2 to 3 until the line (1) in the copy example is within the reference value.
<Reference value> Within 20 ± 2.5 mm (copy example (a) image)

Si le panneau de commande est du type LCD:

Réglage de la synchronisation du bord avant

1. Exécutez le mode de maintenance 034.
Sélectionnez ADJ, RCL ON TIMING et appuyez sur la touche de départ copie.
Sélectionnez RCL DUP.
Appuyez sur la touche d'interruption pour produire le motif de test en mode recto-verso et vérifiez l'image. <Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)
Si l'écart entre l'axe du papier (ligne pointillée) et le trait de l'exemple de copie (2) est supérieur à la valeur de référence, effectuez le réglage suivant.

2. Pour l'image dans l'exemple de copie (b) : augmenter la valeur.
Pour l'image dans l'exemple de copie (c) : diminuer la valeur.
Plage de paramètres: $-5,0 - +10,0$
Lorsqu'on change la valeur d'une unité, le bord avant se déplace de 0,1 mm.
3. Produisez à nouveau le motif de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $20 \pm 2,5$ mm (image (a) d'un exemple de copie)

Si el tablero de controles es de tipo LCD:

Ajuste de la sincronización del borde superior

1. Active el modo de mantenimiento 034.
Seleccione ADJ, RCL ON TIMING y presione la tecla de inicio.
Seleccione RCL DUP.
Presionar la tecla de interrupción para imprimir el patrón de prueba en modo dúplex y controlar la imagen. <Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a)).
Si la separación supera el valor de referencia, realizar el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor.
Gama de ajustes: $-5,0 - +10,0$
Un cambio de valor en una unidad mueve el extremo guía en 0,1 mm.
3. Haga salir nuevamente el patrón de prueba.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $20 \pm 2,5$ mm (imagen de copia de muestra (a))

Wenn es sich um eine LCD-Bedienungstafel handelt:

Einstellen des Vorderkanten-Timings

1. Führen Sie den Wartungsmodus 034 aus.
Wählen Sie ADJ, RCL ON TIMING, und drücken Sie die Starttaste.
Wählen Sie RCL DUP.
Drücken Sie die Unterbrechungstaste, um das Testmuster im Duplexmodus auszugeben, und überprüfen Sie das Bild. <Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild)
Überschreitet die Abweichung den Bezugswert, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-5,0 - +10,0$
Durch Ändern des Werts um eins wird die Vorderkante um 0,1 mm verschoben.
3. Das Testmuster erneut ausgeben.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $20 \pm 2,5$ mm (Kopienmuster (a) Bild).

Se il tipo di pannello operativo è quello LCD:

Regolazione della sincronizzazione del bordo principale

1. 1. Avviare il modo manutenzione 034.
Selezionare ADJ, RCL ON TIMING e premere il tasto di avvio.
Selezionare RCL DUP.
Premere il tasto di interruzione per eseguire i modelli di prova nel modo duplex e controllare l'immagine. <Valore di riferimento> Entro 20 ± 2.5 mm (immagine dell'esempio di copia (a))
Se lo scostamento supera il valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-5.0 - +10.0$
Cambiano il valore di una unità si sposta il bordo di entrata di 0.1 mm.
3. Eseguire di nuovo i modelli di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro 20 ± 2.5 mm (immagine dell'esempio di copia (a))

操作面板为LCD型时

[前端图像偏移调整]

1. 执行维修模式034。
选择ADJ.RCL ON TIMING按下开始键。
选择RCL DUP。
按下插入键，在双面模式下试输出图像，进行图像确认。
<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)
若纸张中线与复印示例线(1)的距离超过参考值范围，则进行进一步的调整。

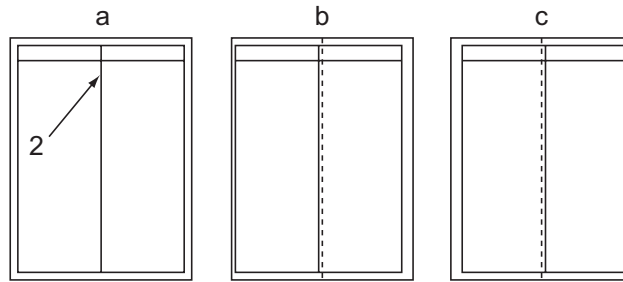
2. b图像时：增加调整值。
c图像时：减少调整值。
设定范围： $-5.0 - +10.0$
1单位的变化量：0.1mm
3. 再次进行试复印。
4. 反复操作步骤2至3，直到纸张中线与复印示例线(1)的距离处于参考值范围内。
<参考值> 20 ± 2.5 mm 以内 (a 图像为复印示例)

操作パネルがLCD タイプの場合

[先端タイミング調整]

1. メンテナンスモードU034を実行する。
ADJ, RCL ON TIMINGを選択し、スタートキーを押す。
RCL DUPを選択する。
割り込みキーを押し、両面モードでテストパターンを出力して、画像を確認する。(基準値) 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)
ずれが基準値外の場合は、次の調整をおこなう。

2. コピーサンプル (b) 画像の場合：調整値を上げる。
コピーサンプル (c) 画像の場合：調整値を下げる。
設定範囲： $-5.0 - +10.0$
1ステップの変化量：0.1mm
3. 再度テストパターン出力を行う。
4. コピーサンプルの線 (1) が基準値内になるまで、手順2～3を繰り返す。
(基準値) 20 ± 2.5 mm 以内 (コピーサンプル (a) 画像)



If the operation panel is an LCD type:

Adjusting the center line

1. Run maintenance mode 034.
Select ADJ, LSU OUT TIMING and press the Start key.
Select LSU DUP.
Press the Interrupt key to output the test pattern in duplex mode and check the image. <Reference value> Within ± 3.0 mm (copy example (a) image)
If the gap between the center of the paper (dotted line) and the copy example line (2) is larger than the reference value, perform the following adjustment.

2. For the image in copy example (b): Increase the value.
For the image in copy example (c): Decrease the value.
Setting range: $-7.0 - +10.0$
Changing the value by one moves the center line by 0.1 mm.
3. Output the test pattern again.
4. Repeat steps 2 and 3 until an adequate image is obtained.
<Reference value> Within ± 3.0 mm (copy example (a) image)

Si le panneau de commande est du type LCD:

Réglage de la ligne centrale

1. Exécutez le mode de maintenance 034.
Sélectionnez ADJ, LSU OUT TIMING et appuyez sur la touche de départ copie.
Sélectionnez LSU DUP.
Appuyez sur la touche d'interruption pour produire le motif de test en mode recto-verso et vérifiez l'image. <Valeur de référence> Dans les limites de $\pm 3,0$ mm (image (a) d'un exemple de copie)
Si l'écart entre l'axe du papier (ligne pointillée) et le trait de l'exemple de copie (2) est supérieur à la valeur de référence, effectuez le réglage suivant.

2. Pour l'image dans l'exemple de copie (b) : augmenter la valeur.
Pour l'image dans l'exemple de copie (c) : diminuer la valeur.
Plage de paramètres: $-7,0 - +10,0$
Lorsqu'on change la valeur d'une unité, la ligne centrale se déplace de 0,1 mm.
3. Produisez à nouveau le motif de test.
4. Répétez les opérations 2 et 3 jusqu'à ce que la ligne (1) dans l'exemple de copie soit dans les limites de la valeur de référence.
<Valeur de référence> Dans les limites de $\pm 3,0$ mm (image (a) d'un exemple de copie)

Si el tablero de controles es de tipo LCD:

Ajuste de la línea central

1. Active el modo de mantenimiento 034.
Elija ADJ, LSU OUT TIMING y presione la tecla de inicio.
Elija LSU DUP.
Presione la tecla de interrupción para imprimir el patrón de prueba en modo dúplex y controle la imagen.
<Valor de referencia> Dentro de $\pm 3,0$ mm (imagen de copia de muestra (a))
Si la separación entre el centro del papel (línea de puntos) y la línea de la copia de muestra (2) es mayor que el valor de referencia, realizar el siguiente ajuste.

2. Para la imagen en la copia de muestra (b): aumentar el valor.
Para la imagen en la copia de muestra (c): disminuir el valor.
Gama de ajustes: $-7,0 - +10,0$
Un cambio de valor en una unidad mueve la línea de centro en 0,1 mm.
3. Haga salir nuevamente el patrón de prueba.
4. Repetir los pasos 2 a 3 hasta que la línea (1) en la copia de muestra se encuentre dentro del valor de referencia.
<Valor de referencia> Dentro de $\pm 3,0$ mm (imagen de copia de muestra (a))

Wenn es sich um eine LCD-Bedienungstafel handelt:

Einstellen der Mittellinie

1. Führen Sie den Wartungsmodus 034 aus.
Wählen Sie ADJ, LSU OUT TIMING, und drücken Sie die Starttaste.
Wählen Sie LSU DUP.
Drücken Sie die Unterbrechungstaste, um das Testmuster im Duplexmodus auszugeben, und überprüfen Sie das Bild. <Bezugswert> Binnen $\pm 3,0$ mm (Kopienmuster (a) Bild).
Falls der Abstand zwischen der Mittellinie des Papiers (Punktierte Linie) und der Kopienmusterlinie (2) größer als der Bezugswert ist, ist die folgende Einstellung durchzuführen.

2. Für das Bild im Kopienmuster (b): Den Wert erhöhen.
Für das Bild im Kopienmuster (c): Den Wert verringern.
Einstellbereich: $-7,0 - +10,0$
Durch Ändern des Werts um eins wird die Mittellinie um 0,1 mm verschoben.
3. Das Testmuster erneut ausgeben.
4. Die Schritte 2 und 3 wiederholen, bis die Linie (1) im Kopienmuster innerhalb des Bezugswerts liegt.
<Bezugswert> Binnen $\pm 3,0$ mm (Kopienmuster (a) Bild)

Se il tipo di pannello operativo è quello LCD:

Regolazione della linea di centro

1. 1. Avviare il modo manutenzione 034.
Selezionare ADJ, LSU OUT TIMING e premere il tasto di avvio.
Selezionare LSU DUP.
Premere il tasto di interruzione per eseguire i modelli di prova nel modo duplex e controllare l'immagine. <Valore di riferimento> Entro ± 3.0 mm (immagine dell'esempio di copia (a))
Se lo scostamento fra il centro della carta (linea tratteggiata) e la linea dell'esempio di copia (2) è maggiore rispetto al valore di riferimento, effettuare la seguente regolazione.

2. Per l'immagine nell'esempio di copia (b): aumentare il valore.
Per l'immagine nell'esempio di copia (c): ridurre il valore.
Gamma di impostazione: $-7.0 - +10.0$
Cambiando il valore di una unità si sposta la linea centrale di 0,1 mm.
3. Eseguire di nuovo i modelli di prova.
4. Ripetere i passi da 2 a 3 finché la linea (1) nell'esempio di copia non sia entro il valore di riferimento.
<Valore di riferimento> Entro ± 3.0 mm (immagine dell'esempio di copia (a))

操作面板为LCD型时

[中心线的调整]

1. 执行维修模式034。
选择ADJ.LSU OUT TIMING按下开始键。
选择LSU DUP。
按下插入键，在双面模式下试输出图像，进行图像确认。
<参考值> ± 3.0 mm 以内 (a 图像为复印示例)
若纸张中线与复印示例线(1)的距离超过参考值范围，则进行进一步的调整。

2. b图像时：增加调整值。
c图像时：减少调整值。
设定范围： $-7.0 - +10.0$
1单位的变化量：0.1mm
3. 再次进行试复印。
4. 反复操作步骤2至3，直到纸张中线与复印示例线(1)的距离处于参考值范围内。
<参考值> ± 3.0 mm 以内 (a 图像为复印示例)

操作パネルがLCDタイプの場合

[センターライン調整]

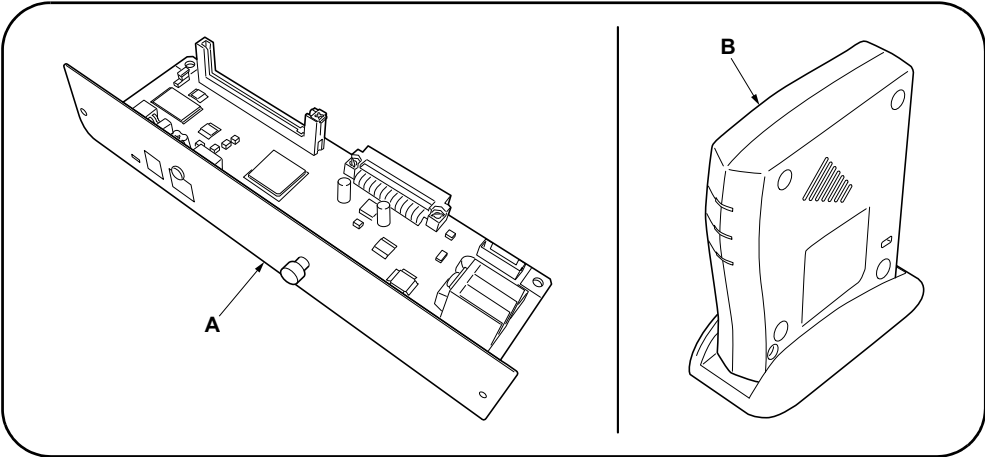
1. メンテナンスモードU034を実行する。
ADJ, LSU OUT TIMINGを選択し、スタートキーを押す。
LSU DUPを選択する。
割り込みキーを押し、両面モードでテストパターンを出力して、画像を確認する。
(基準値) ± 3.0 mm 以内 (コピーサンプル (a) 画像)
紙のセンター(破線)とコピーサンプルの線 (2) のずれが基準値外の場合は、次の調整をおこなう。

2. コピーサンプル (b) 画像の場合：調整値を上げる。
コピーサンプル (c) 画像の場合：調整値を下げる。
設定範囲： $-7.0 - +10.0$
1ステップの変化量：0.1mm
3. 再度テストパターン出力を行う。
4. コピーサンプルの線 (2) が基準値内になるまで、手順2～3を繰り返す。
(基準値) ± 3.0 mm 以内 (コピーサンプル (a) 画像)

INSTALLATION GUIDE FOR Printing System (Z)

English

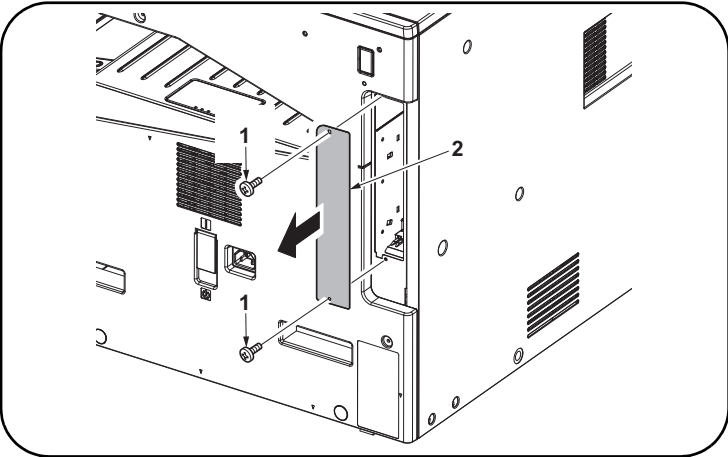
INSTALLATION GUIDE FOR
THE Printing System (Z)



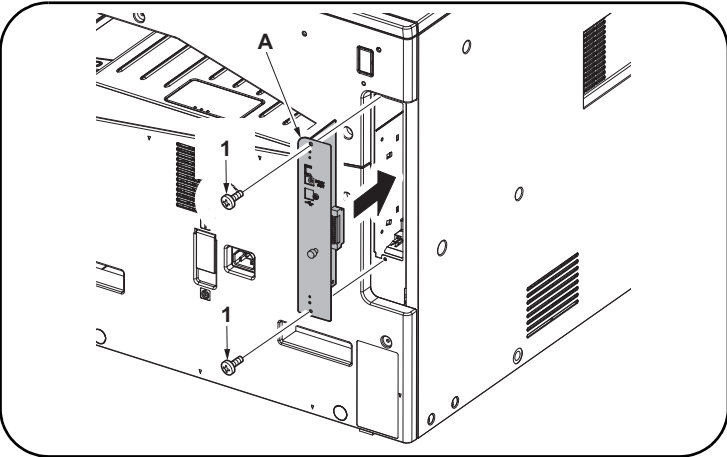
Supplied part	
A Printer board	1
Option	
B USB interface IB-110	1

Be sure to remove any tape and/or cushioning material from supplied parts.

Before installing the printing system, turn the copier's power switch OFF and unplug the copier from the power supply.



Installing the printer board
1. Remove two screws (1) and remove the cover (2).



2. Insert the printer board (A) all the way into the slot and secure it with two screws (1) that have been removed in step 1.

Français

GUIDE D'INSTALLATION DU
Printing System (Z)

Contenu standard	
A Carte d'imprimante	1
Option	
B Interface USB IB-110	1

Veillez à retirer les morceaux de bande adhésive et/ou les matériaux de rembourrage des pièces fournies.

Avant d'installer le système d'impression, mettre le copieur hors tension à l'interrupteur principal et le débrancher de la prise secteur.

Installation de la carte d'imprimante
1. Oter les deux vis (1) et retirer le couvercle (2).

2. Insérer la carte d'imprimante (A) à fond dans la fente et la fixer à l'aide de deux vis (1) qui avaient été retirées auparavant à l'étape 1.

Español

GUIA DE INSTALACION PARA
EL Printing System (Z)

Índice general	
A Tarjeta de impresora	1
Opción	
B Interfaz USB IB-110	1

Asegúrese de despegar todas las cintas y/o material amortiguador de las partes suministradas.

Antes de instalar el sistema de impresión, apague la fotocopidora a OFF y desenchufe la fotocopidora del suministro eléctrico.

Instalación de la tarjeta de impresora
1. Quite los dos tornillos (1) y desmonte la cubierta (2).

2. Inserte la tarjeta de impresora (A) completamente en la ranura y asegure con los tornillos (1) quitados en el paso 1.

Deutsch

INSTALLATIONSANLEITUNG
FUR Printing System (Z)

Lieferumfang (Standard)	
A Druckerkarte	1
Option	
B USB-Schnittstelle IB-110	1

Entfernen Sie Klebeband und/oder Dämpfungsmaterial vollständig von den mitgelieferten Teilen.

Bevor Sie das Drucksystem installieren, schalten Sie den Netzschalter des Kopierers aus, und trennen Sie den Kopierer vom Stromnetz.

Installieren der Druckerkarte
1. Die zwei Schrauben (1) herausdrehen, und die Abdeckung (2) abnehmen.

2. Die Druckerkarte (A) bis zum Anschlag in den Steckplatz einschieben und mit den in Schritt 1 entfernten zwei Schrauben (1) befestigen.

Italiano

GUIDA ALL'INSTALLAZIONE
PEL Printing System (Z)

Dotazione standard	
A Scheda stampante	1
Opzione	
B Interfaccia USB IB-110	1

Accertarsi di rimuovere tutti i nastri adesivi e/o il materiale di imbottitura dalle parti fornite.

Prima di eseguire il montaggio del sistema di stampa, spegnere l'interruttore principale e sfilare la spina della copiatrice dalla presa.

Montaggio della scheda stampante
1. Rimuovere le due viti (1) per togliere il pannello (2).

2. Inserire la scheda stampante (A) fino in fondo nello slot e fissarla con le due viti (1) che sono state rimosse nel passo 1.

简体中文

Printing System (X) 安装手册

附属品	
A 打印板	1
选购件	
B USB 接口 IB-110	1

如果附属品上带有固定胶带、缓冲材料时务必揭下。

在安装作业之前，必须切断 (OFF) 复印机主机的电源开关，并拔下电源插头后再进行操作。

安装打印板
1. 卸下 2 颗螺钉 (1)，然后卸下盖板 (2)。

2. 将打印板 (A) 插入到底，用步骤 1 卸下的 2 颗螺钉 (1) 加以固定。

日本語

Printing System (X)
設置手順書

同梱品	
A プリンタボード	1
オプション	
B USB インタフェース IB-110	1

同梱品に固定テープ、緩衝材が付いている場合は必ず取り外すこと。

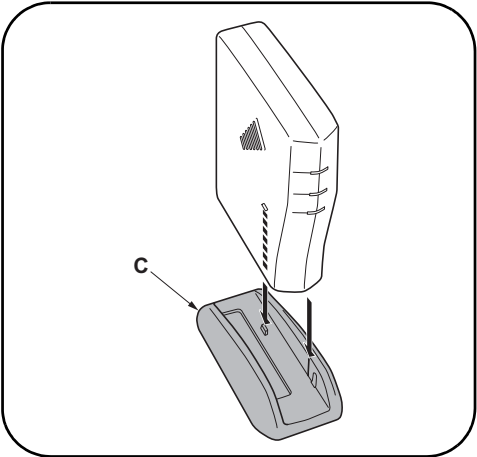
取り付け作業を行う前には、必ず複写機本体の主電源スイッチを OFF にし、電源プラグを抜いてから作業すること。

プリンタボードの取り付け
1. ビス (1) 2 本を外し、カバー (2) を取り外す。

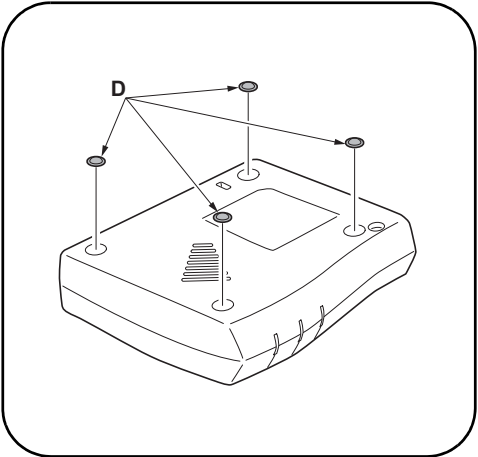
2. プリンタボード (A) を奥まで挿入し、手順 1 で取り外したビス (1) 2 本で固定する。

English

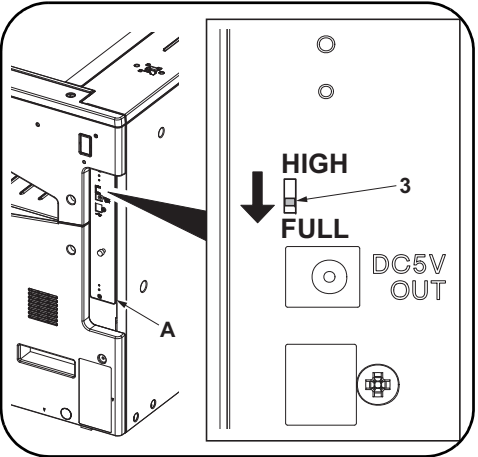
Installing the USB interface IB-110 (optional)



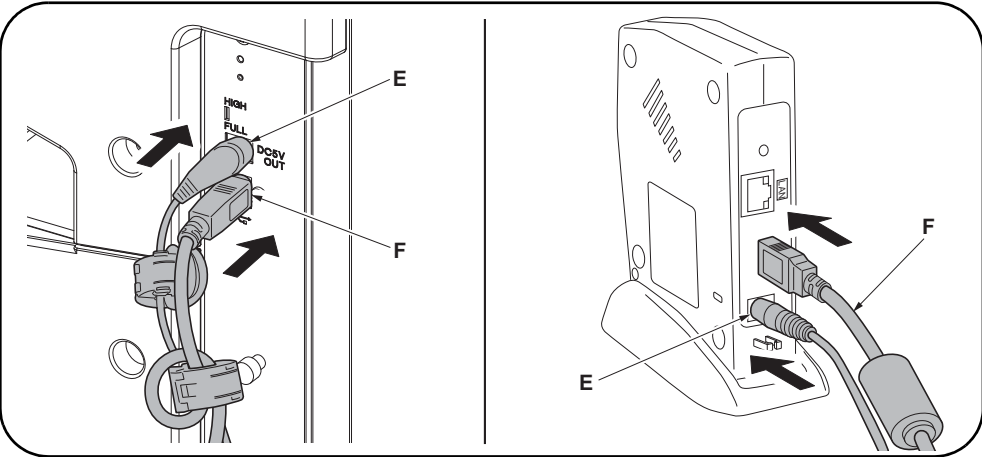
Installing IB-110 vertically:
1. Attach the vertical stand (C) supplied with IB-110.



Installing IB-110 horizontally:
1. Attach the four rubber bases (D) supplied with IB-110 as indicated in the figure.



2. Move the DIP switch (3) on the printer board (A) from HIGH to FULL.
Note
If the IB-110 will not be used, the DIP switch must be left at HIGH.



3. Connect the connector, which has a ferrite core, of the power cable (E) supplied with IB-110 to the printer board, and connect the other side to IB-110.
4. Connect the USB cable (F) supplied with IB-110 to the printer board, and connect the other side to IB-110.
Note
Be sure to use the supplied power cable and USB cable.

Français

Installation de l'interface USB IB-110 (en option)

Installation verticale de l'IB-110:
1. Fixer le support vertical (C) fourni avec l'IB-110.

Installation horizontale de l'IB-110:
1. Fixer les quatre bases en caoutchouc (D) fourni avec l'IB-110 comme indiqué sur l'illustration.

2. Amener le commutateur DIP (3) de la carte d'imprimante (A) de HIGH à FULL.
Remarque
Si le IB-110 n'est pas utilisé, laisser le commutateur DIP en position HIGH.

3. Brancher le connecteur, qui possède un noyau en ferrite, du cordon d'alimentation (E) fourni avec l'IB-110 sur la carte d'imprimante, et brancher l'autre côté à l'IB-110.
4. Brancher le câble USB (F) fourni avec l'IB-110 sur la carte d'imprimante, et brancher l'autre côté à l'IB-110.
Remarque
Veiller à utiliser le cordon d'alimentation et le câble USB fournis.

Español

Instalación de la interfaz IB-110 (opcional)

Instalación vertical de la IB-110:
1. Coloque el soporte vertical (C) entregado con la IB-100.

Instalación horizontal de la IB-110:
1. Coloque las cuatro bases de goma (D) entregadas con la IB-110 como se indica en la figura.

2. Mover el interruptor DIP (3), de la tarjeta de impresora (A), de la posición HIGH a la posición FULL.
Nota
Si no va a utilizar el IB—110, el interruptor DIP debe permanecer en la posición HIGH.

3. Conecte el conector con un núcleo de ferrita, del cable eléctrico (E) entregado con la IB-110 a la tarjeta de impresora y conecte el otro lado a la IB-110.
4. Conecte el cable USB (F) entregado con la IB-110 a la tarjeta de impresora y conecte el otro lado a la IB-110.
Nota
Asegúrese de utilizar el cable eléctrico y el cable USB entregados.

Deutsch

Installieren der USB-Schnittstelle IB-110 (optional)

Vertikale Installation von IB-110:
1. Den mit IB-110 gelieferten Vertikalständer (C) anbringen.

Horizontale Installation von IB-110:
1. Die mit IB-110 gelieferten vier Gummifüße (D) gemäß der Abbildung anbringen.

2. Schalten Sie den DIP-Schalter (3) auf der Druckerkarte (A) von HIGH auf FULL um.
Hinweis
Falls das IB-110 nicht verwendet wird, muss der DIP-Schalter auf HIGH gesetzt bleiben.

3. Den mit Ferritkern versehenen Stecker des mit IB-110 gelieferten Netzkabels (E) an die Druckerkarte, und das andere Ende an IB-110 anschließen.
4. Das mit IB-110 gelieferte USB-Kabel (F) an die Druckerkarte, und das andere Ende an IB-110 anschließen.
Hinweis
Verwenden Sie unbedingt das mitgelieferte Netzkabel und USB-Kabel.

Italiano

Installazione dell'interfaccia USB IB-110 (opzione)

Installazione di IB-110 in posizione verticale:
1. Fissare il supporto verticale (C) fornito in dotazione con IB-110.

Installazione di IB-110 in posizione orizzontale:
1. Fissare le quattro basi di gomma (D) fornite in dotazione con IB-110 come indicato nel disegno.

2. Spostate il selettore DIP (3) sulla scheda stampante (A) dalla posizione HIGH a FULL.
Nota
Se l'unità IB-110 non verrà utilizzata, il selettore DIP deve essere lasciato alla posizione HIGH.

3. Collegare il connettore, che ha un nucleo in ferrite, del cavo di alimentazione (E) fornito in dotazione con IB-110 alla scheda stampante e collegare l'altra estremità a IB-110.
4. Collegare il cavo USB (F) fornito in dotazione con IB-110 alla scheda stampante e collegare l'altra estremità a IB-110.
Nota
Assicurarsi di usare il cavo di alimentazione e il cavo USB forniti in dotazione.

简体中文

安装 USB 接口 IB-110 (选购件)

纵置使用 IB-110 时
1. 安装附属 IB-110 的纵置台架 (C)。

横置使用 IB-110 时
1. 将 IB-110 上附属的 4 个橡胶台 (D)，贴在图示位置上。

2. 将打印板 (A) 上的 DIP 开关 (3) 从 HIGH 拨至 FULL。
注意
如果不使用 IB-110，务必将 DIP 开关置于 HIGH 位置。

3. 将 IB-110 上附属的电源线 (E) 连接器 (具有磁性的氧化铁) 侧连接在打印板上，另一侧连接在 IB-110 上。
4. 将 IB-110 上附属的 USB 线 (F) 连接在打印板上，另一侧连接在 IB-110 上。
注意
务必使用附属的电源线和 USB 线。

日本語

USB インタフェース IB-110(オプション)の取付

IB-110 を縦置きで使用する場合
1. IB-110 に付属する縦置きスタンド(C)を取り付ける。

IB-110 を横置きで使用する場合
1. IB-110 に付属する台ゴム(D)4 個を、図の位置に貼り付ける。

2. プリントボード(A)のディップスイッチ (3) を HIGH から FULL へ切り替える。
注意
IB-110 を使用しない場合は、必ず HIGH にすること。

3. IB-110 に付属する電源ケーブル(E)のフェライトコアが付いている側のコネクタをプリントボードに接続し、もう一方を IB-110 に接続する。
4. IB-110 に付属する USB ケーブル(F)をプリントボードに接続し、もう一方を IB-110 に接続する。
注意
必ず付属の電源ケーブルと USB ケーブルを使用すること。

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